

Introduction to Psychology

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Welcome

This is the course book for [insert]. This book is divided into 6 units of study to help you engage with the materials. The course resources and learning activities are designed not only to help prepare you for the course assessments, but also to give you opportunities to practice various skills.

Below you will find information about how to navigate this book. Please also refer the schedule in Moodle, as well as the Assessment section in Moodle for instructions on required readings and assignments.

Course Notes

You should be reading this information in the context of a Trinity Western University course offered via Moodle. If this is not the case, then this may be an unauthorized reproduction of the course. Please contact elearning@twu.ca if you have concerns.

These notes will be your guide through the learning activities and assessment strategies necessary for you to succeed in the course, so it is important for you to engage to the best of your ability and take advantage of the resources available to you through Trinity Western University.

Assessment tasks are managed in other sections of the Moodle course, so be sure to familiarize yourself with those requirements and resources.

How this Course is Built

This course is primarily designed to be completed asynchronously, meaning that there are no scheduled times or places that you are required to meet, even online. You can work according to your own schedule *within the six weeks you have to complete the course*. That said, this is a full university level course and there are timelines that we strongly recommend that you meet to ensure that you are succeeding in building your knowledge through the course.

It would be to your significant disadvantage to submit everything at the end of the course.

Asynchronous courses require learners to be well-organized and self-motivated, and we have included supports for you to help you develop strong learning habits that will ensure your success.

For example, there are several self-check quizzes throughout the course. These quizzes are not graded, but they can be powerful tools for you to ensure you understand key ideas and concepts. We suggest you take each quiz without the aid of your notes and textbook and multiple times until you have mastered the content. This strategy taps into three powerful learning structures that have been shown to be highly effective.

1. **Effortful recall.** By intentionally trying to recall information without external aids, you are strengthening the neural pathways in your brain that lead to building new connections between ideas. One way to make recall easier is to connect key ideas to other things that you know or have experienced. For example, you might be studying World War II, and you connect the date that Canadians participated in the D-Day operation with something else meaningful to you that happened on June 6, like maybe the date you bought your first car.
2. **Spaced repetition.** By spreading out your attempts on the quiz (leaving a few days between attempts) you can maximize the effects of the first strategy (effortful recall) and ensure that your second or third attempts truly reflect what you know about the topic. We suggest leaving 1-3 days between attempt 1 and 2, then 4-5 days between attempt 2 and 3. You can use a tool like Trello, Notion, or Asana (free versions), or even a task list on your phone to set up a spaced repetition schedule.
3. **Interleaving.** This is the practice of studying a particular topic for a relatively short period of time (maybe 30-40 mins), then switching to a different topic for the same period, before going back to the original topic. We will help build this into your learning by including items from unit 1 in your unit 2-6 quizzes. You can also practice this by taking regular breaks in your work, or even by retaking a unit 1 quiz while you are working in unit 2.

These three strategies are very effective at helping people *remember* key facts about a particular topic, an important first step in learning at the university level. However, you will be asked to do much more than just remember facts. Your ultimate goal is to develop **evaluative judgement**, or the ability for you to judge for yourself the quality of your (or your peers') responses to prompts.

The discussion forums are a key way for you to do this. We have set up the forums in such a way that you will need to present a response to any given prompt before you see other learners' responses. We strongly encourage you to use this structure to formulate your own ideas before you present them in the forum, and then to use the responses of your peers to help you evaluate your

own response.

Using these self-check activities in this way is designed to help you to succeed on the course assignments, upon which your final grade will be determined. These assignments will require you to **use** the facts of the course to generate unique responses to the prompts, based on your past experiences, knowledge, and ability to evaluate the quality of your own work.

How To Navigate This Book

To move quickly to different portions of the book, click on the appropriate chapter or section in the table of contents on the left. The buttons at the top of the page allow you to show/hide the table of contents, search the book, change font settings, download a pdf or ebook copy of this book, or get hints on various



sections of the book.

The faint left and right arrows at the sides of each page (or bottom of the page if it's narrow enough) allow you to step to the next/previous section. Here's



what they look like:

You can also download an offline copy of this book in various formats, such as pdf or an ebook. If you are having any accessibility or navigation issues with this book, please reach out to your instructor or our online team at elearning@tlu.ca.

Course Units

This course is organized into 6 units. Each unit of the course will provide you with the following information:

- A general overview of the key concepts that will be addressed during the unit.
- Specific learning outcomes and topics for the unit.
- Learning activities to help you engage with the concepts. These often include key readings, videos, and reflective prompts.
- The Assessment section provides details on assignments you will need to complete throughout the course to demonstrate your understanding of the course learning outcomes.

Note that assessments, including assignments and discussion posts will be submitted in Moodle. See the Assessment tab in Moodle for the assignment dropboxes.

Course Activities

Below is some key information on features you will see throughout the course.

Learning Activity

This box will prompt you to engage in course concepts, often by viewing resources and reflecting on your experience and/or learning. Most learning activities are ungraded and are designed to help prepare you for the assessment in this course.

Assessment

This box will signify an assignment or discussion post you will submit in Moodle. Note that these demonstrate your understanding of the course learning outcomes. Be sure to review the grading rubrics for each assignment.

Checking Your Learning

This box is for checking your understanding, to make sure you are ready for what follows. Ways to check your learning might include self-check quizzes or questions for discussion. These activities are not graded but are critical for you to be able to begin to develop evaluative judgement in this domain of knowledge.

Note

This box signifies key notes. It may also warn you of possible problems or pitfalls you may encounter!

Chapter 1

Thought and Language

Overview

Welcome to Psych 106

We begin this course by reviewing some important information on scientific research methodologies. While this review will be self-guided, it is critical that you understand the important elements that constitute valid and reliable scientific research as it is these methodologies that serve as the backbone for psychological studies.

After taking time to review scientific research methodologies, we will turn our attention to the subject of Thought and Language. Developing an understanding of Thought and Language helps us better understand how we think, how we organize our thoughts and our knowledge of the world around us, and how we communicate and act out on this information.

Topics

This unit is divided into the following topics:

1. Review- Scientific Research
2. Thinking and Problem Solving
3. Cognitive Biases
4. Language and Thought
5. Animal Language

Learning Outcomes

When you have completed this unit, you should be able to:

- Define key terminology related to principles of scientific research, research designs, and statistics.
- Explain the five characteristics of quality scientific research, and the pros and cons of descriptive, correlational, and experimental research designs.
- Determine how biases might influence the outcome of a study and how experiments help demonstrate cause-and-effect relationships.
- Apply the concepts of reliability and validity to examples and concepts of experimental methods to research examples.
- Assess whether anecdotes, authority figures, and common sense are reliably truthful sources of information.
- Understand what it means for variables to be positively or negatively correlated and how and why psychologists use significance tests.

Activity Checklist

Here is a checklist of learning activities you will benefit from in completing this unit. You may find it useful for planning your work.

Read and Reflect

- Read *Krause et al. (2021). Revel for An Introduction to Psychological Science, 3rd Canadian Edition*

- Review **UNIT 1 Slides**

CLICK HERE

An Introduction to Psychological Science - Chapter 2: Reading and Evaluating Scientific Research

Learning Objectives

- Know the key terminology related to principles of scientific research.
- Understand the five characteristics of quality scientific research.
- Understand how biases might influence the outcome of a study.
- Apply the concepts of reliability and validity to examples.

- Analyze whether anecdotes, authority figures, and common sense are reliably truthful sources of information.

Five Characteristics of Quality Scientific Research

- Based on measurements that are objective, valid, and reliable

- Generalizable

- Use of techniques that reduce bias

- Made public

- Can be replicated

Scientific Measurement: Objectivity

- Objective measurements (p. 31)

- e.g. weight

- Variable (p. 31)

- Measuring variables - Examples

- Functional magnetic resonance imaging (fMRI)

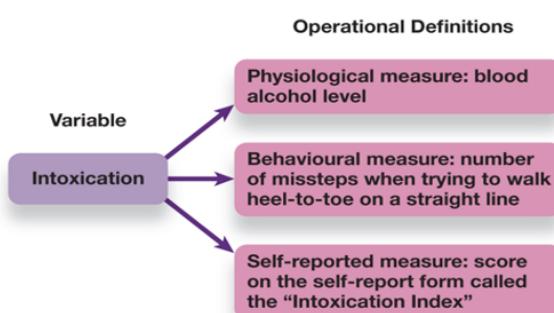
- Blood or saliva

- Self-reporting

Scientific Measurement: Objectivity (2 of 2)

Figure 2.1 Operational Definitions

A variable, such as the level of intoxication, can be operationally defined in multiple ways. This figure shows operational definitions based on physiology, behaviour, and self-report measures.



slide showing Operational Definitions

Scientific Measurement: Reliability and Validity

- Reliability (p. 32)
 - Consistent and stable

- Validity (p. 32)
 - True measurements

Generalizability of Results

- Generalizability (p. 33)
 - Outside the laboratory

- Study large groups
 - Population (p. 33)
 - * Sample (p. 33)

- Best reflection of population
 - Random sample (p. 33)

- Settle for easier sample
 - Convenience sample (p. 33)

- Location of study
 - Laboratory research

- Naturalistic research

- Ecological validity (p. 33)

Sources of Bias in Psychological

- Research

- Researcher Bias

- Subject/Participant Bias

- Hawthorne effect (p. 35)

- Social Desirability (p. 35)

Working the Scientific Literacy Model: Demand Characteristics and Participant Behaviour

- What do we know about how bias affects research participants?
 - Demand characteristics (p. 36)

- How can science test the effects of demand characteristics on behaviour?

- Backpack scenario

- How can we critically evaluate the issue of bias in research?
 - Researcher bias
 - * Bright rats vs. dull rats
 - Why is this relevant?
 - Bias compromises studies
 - Placebo effect (p. 35)

Psych @ The Hospital: The Placebo Effect

- Debate about placebo effect
 - “All in their head”
 - Actual physiological response
- Brain activity in regions involved in pain
 - Multiple ways for placebos to affect our responses to pain

Techniques That Reduce Bias

- Anonymity
- Confidentiality
- Inform participants
- Single-blind study (p. 37)
- Double-blind study (p. 37)

Sharing the Results

- Academic journals
 - Peer review (p. 37)
 - Replication (p. 38)

Five Characteristics of Poor Research

- Lack of falsifiable hypotheses (p. 38)
 - Testability requires falsifiability
- Anecdotal evidence (p. 38)
 - weight loss commercials
- Biased selection of data
- Appeal to authority (p. 39)
 - Corresponding data?

- Biased expert?

- Appeal to common sense (p. 39)
 - Earth is centre of universe

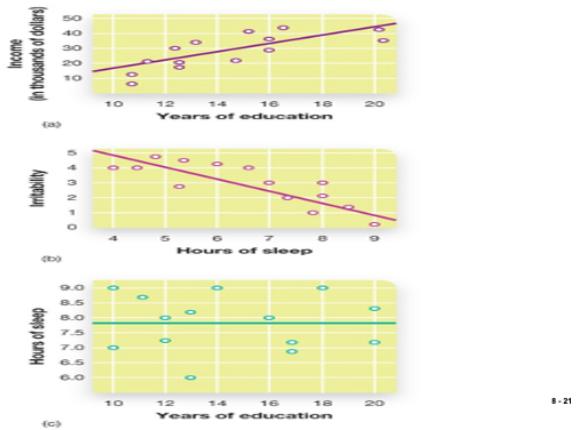
2.2 Learning Objectives

- Know the key terminology related to research designs.
 - Understand what it means when variables are positively or negatively correlated.
 - Understand how experiments help demonstrate cause-and-effect relationships.
 - Apply the terms and concepts of experimental methods to research examples.
 - Analyze the pros and cons of descriptive, correlational, and experimental research designs.
- Descriptive Research
- Descriptive data
 - From observations
 - No attempt to explain why
 - Qualitative Research (p. 42)
 - Case study (p. 42)
 - Extensive details
 - Lacks generalizability
 - Naturalistic observation (p. 44)
 - Self-reporting (p. 45)
 - Participant makes the observations

Correlational Research

Figure 2.4 Correlations Are Depicted in Scatterplots

Here we see two variables that are positively correlated (a) and negatively correlated (b). In the example of a zero correlation (c), there is no relationship between the two variables.



Slide showing correlations depicted in scatterplots

Myths in Mind: Beware of Illusory Correlations

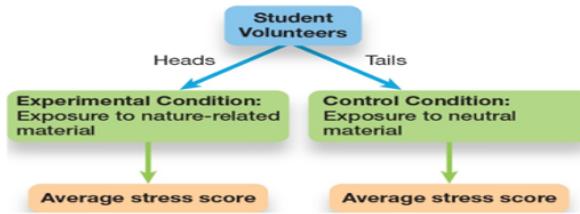
- Illusory correlations (p. 47)
 - Crime increases when the moon is full
 - Opposites attract
 - Gamblers on a “hot streak”
 - Stereotypes

Experimental Research: The Experimental Method

Figure 2.5 Elements of an Experiment

If we wanted to test whether exposure to nature-related images causes a reduction in stress (as is assumed by people who have nature scenes as their computer's wallpaper), we would first need to randomly assign people in our sample to either the experimental or control condition. The dependent variable, the stress levels, would be measured following exposure to either nature-related or neutral material. To test whether the hypothesis is true, the average stress scores in both groups would be compared.

Hypothesis: Nature causes a reduction in stress.



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Slide showing - Elements of an Experiment

Experimental Research: The Quasi-Experimental Method

- Quasi-experimental research (p. 49)
 - Random assignment not always possible
 - * Comparing men and women
 - Cannot determine cause-and-effect

2.4 Learning Objectives

- Know the key terminology of statistics.
- Understand how and why psychologists use significance tests.
- Apply your knowledge to interpret the most frequently used types of graphs.
- Analyze the choice of central tendency statistics based on the shape of the distribution.

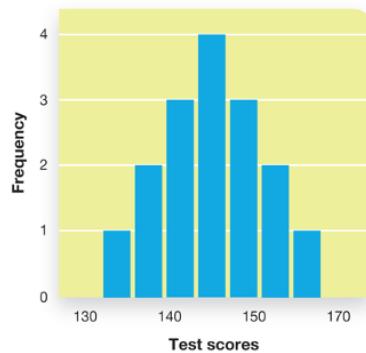
Descriptive Statistics

- Descriptive statistics (p. 60)
 - Frequency
 - Central tendency
 - Variability

Frequency (1 of 2)

Figure 2.7 Graphing Psychological Data

The frequency of standardized test scores forming a normal curve.



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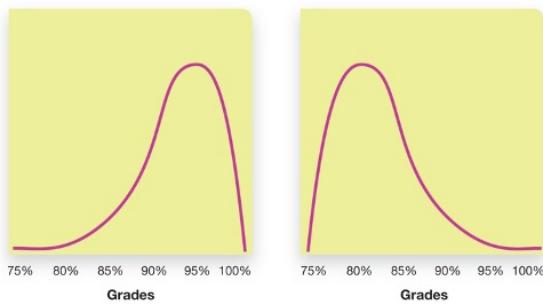
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Slide showing - Graphing Psychological Data

Frequency (2 of 2)

Figure 2.8 Skewed Distributions

Negatively skewed distributions have an extended tail to the left (as in the left graph below). Positively skewed distributions have an extended tail to the right (as in the right graph below).



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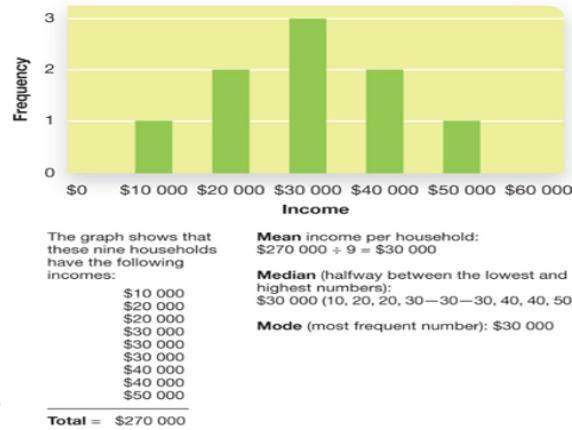
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Slide showing - Skewed Distributions

Central Tendency

Figure 2.9 Central Tendency in Symmetrical Distributions

This symmetrical histogram shows the annual income of nine randomly sampled households. Notice that the mean, median, and mode are all in the same spot—this is a characteristic of normal distributions.

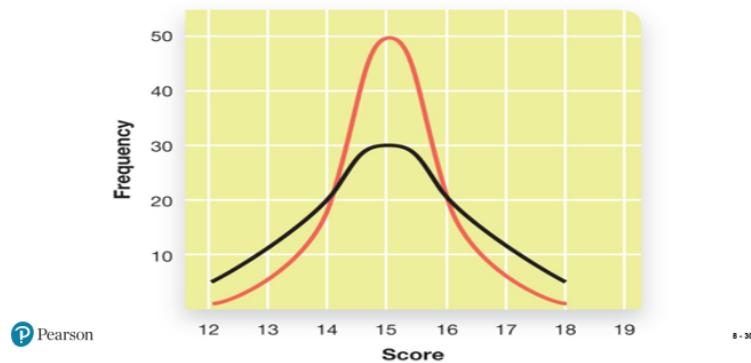


Slide showing - Central Tendency in Symmetrical Distributions

Variability

Figure 2.11 Visualizing Variability

Imagine that these curves show how two classes fared on a 20-point quiz. Both classes averaged scores of 15 points. However, the students in one class (depicted in red) scored much more similarly to one another compared to students in another class (depicted in black), whose scores showed greater variability. The class represented by the black line would have a higher standard deviation.

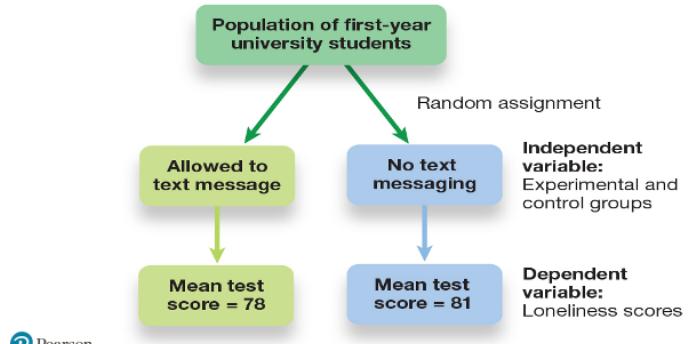


Slide showing - Visualizing Variability

Hypothesis Testing: Evaluating the Outcome of the Study (1 of 2)

Figure 2.13 Testing a Simple Hypothesis

To conduct an experiment on whether texting reduces loneliness, students would be randomly assigned to either text-messaging or no-text-messaging groups. Their average scores on a loneliness scale would then be compared.



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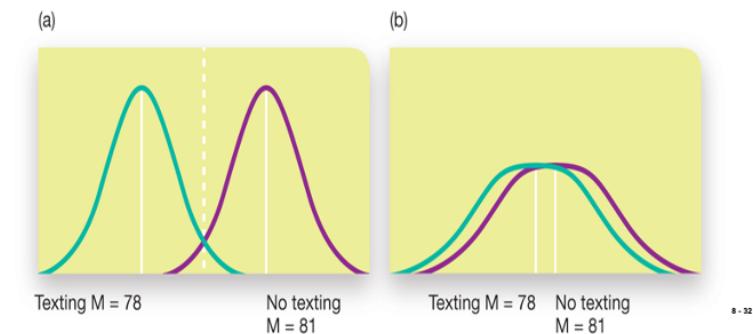
8 - 31

Slide showing - Testing a Simple Hypothesis

Hypothesis Testing: Evaluating the Outcome of the Study (2 of 2)

Figure 2.14 How Variability Affects Hypothesis Testing

(a) The means (represented by M) differ between the two groups, and there is little overlap in the distribution of scores. When this occurs, the groups are much more likely to be *significantly different*. (b) Even though the means differ, there is much overlap between the distributions of scores. It is unlikely that these two means would be significantly different.



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Slide showing - How Variability Affects Hypothesis Testing

True or False?

- T F 1. People more easily detect male prejudice against females

than female against males or female against females.

- T F 2. In general, people underestimate how much they really know.
- T F 3. It takes less compelling evidence to change our beliefs than it did to create them in the first place.
- T F 4. The babbling of an infant at 4 months of age makes it clear whether the infant is French, Korean, or Ethiopian.
- T F 5. Some people can write but not read.
- T F 6. Many bilinguals report that they have different senses of self, depending on which language they are using.
- T F 7. Imagining a physical activity triggers action in the same brain areas that are triggered when actually performing that activity.
- T F 8. Only human beings seem capable of insight (the sudden realization of a problem's solution).
- T F 9. Honeybees do a dance to communicate the direction and distance of a new food source to other bees.
- T F 10. Apes are capable of communicating meaning by using symbols.

Thinking

- Thinking, or *cognition*, refers to a process that involves knowing, understanding, remembering, and communicating.
- Gr. *Φρωνεω* (pr. phrones) - to think, to mind; to be of opinion; to take thought, be considerate; to entertain sentiments or inclinations of a specific kind, to be minded; to be in a certain frame of mind; to imagine; to heed, pay regard to; to incline to; be set upon, mind

A little more Greek

- Mind Gr. *Νοης* - the mind, intellect; understanding, intelligent faculty; intellect, judgment; opinion, sentiment; mind, thought, conception; settled state of mind; frame of mind.

The limits of intuition

- A bat and a ball cost \$1.10 in total. The bat costs \$1 more than the ball. How much does the ball cost?

- A man bought a horse for \$60 and sold it for \$70. Then he bought the same horse back for \$80 and again sold it, for \$90. How much money did he make in the horse business?

Modules

8.1: The Organization of Knowledge

8.2: Problem Solving, Judgment, and Decision Making

8.3: Language and Communication



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Slide showing - Modules

8.1 Learning Objectives

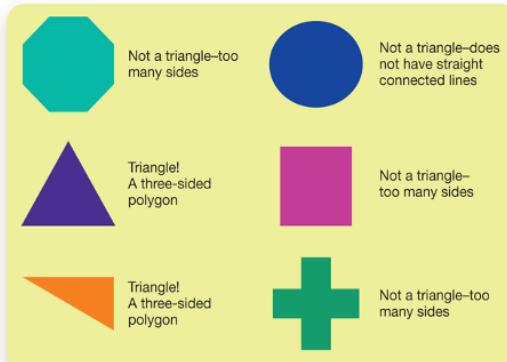
- Know the key terminology associated with concepts and categories.
 - Understand theories of how people organize their knowledge about the world.
 - Understand how experience and culture can shape the way we organize our knowledge.
 - Apply your knowledge to identify prototypical examples.
 - Analyze the claim that the language we speak determines how we think.

think.

- Concept (p. 294)
 - Divided into smaller groups
 - Categories (p. 294)

Rule-based Categorization (1 of 2)

Figure 8.1 Using the Definition of a Triangle to Categorize Shapes



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Slide showing - Using the Definition of a Triangle to Categorize Shapes

Rule-based Categorization (2 of 2)

Table 8.1 Categorizing Objects According to the Definition of Bird

Definition: “[A] feathered, warm-blooded, vertebrate of the class Aves, having a beak and wings, laying eggs and usually able to fly.” (*Canadian Oxford Dictionary*, 2nd ed., 2005)

Now categorize a set of items by answering yes or no regarding the truth of the following sentences:

1. A sparrow is a bird.
2. An apple is a bird.
3. A penguin is a bird.

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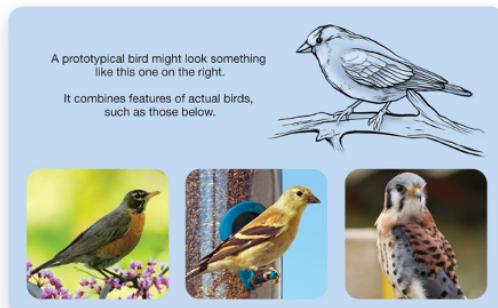
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Slide showing - Categorizing Objects According to the Definition of Bird

Prototypes: Categorization by Comparison

Figure 8.2 A Prototypical Bird



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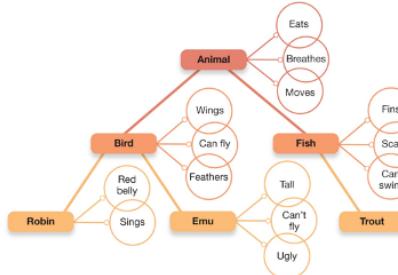
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Slide showing - A Prototypical Bird

Networks and Hierarchies

Figure 8.3 A Semantic Network Diagram for the Category “Animal”

The nodes include the basic-level categories, *Bird* and *Fish*. Another node represents the broader category of *Animal*, while the lowest three nodes represent the more specific categories of *Robin*, *Emu*, and *Trout*.



Source: Based on Collins, A. M., & Quillian, M. R. (1969). Retrieval time from semantic memory. *Journal of Verbal Learning and Verbal Behavior*, 8, 240–248.

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Slide showing - A Semantic Network Diagram for the Category “Animal”
Working the Scientific Literacy Model: Priming and Semantic Networks

- What do we know about semantic networks?

- Priming (p. 297)

- How can scientists explain priming effects?
 - Lexical Decision Task
- Can we critically evaluate this information?
 - Strength of priming varies
 - Experiments difficult to replicate

- Why is this relevant?

- Advertising

Categorization and Experience

- Categorization is based on experience
 - Efficient process
 - But can also result in errors

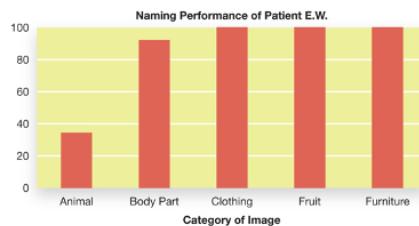
Categories and the Brain (1 of 2)

- Categories, Memories, and the Brain
- Category-specific visual agnosia (CSVA)
 - Living vs. non-living categories

Categories and the Brain (2 of 2)

Figure 8.6 Naming Errors for a CSVA Patient

Patients with CSVA have problems identifying members of specific categories. When asked to identify the object depicted by different line drawings, patient E.W. showed a marked impairment for the recognition of animals. Her ability to name items from other categories demonstrated that her overall perceptual abilities were preserved.



Source: Based on data from Caramazza, A., & Mahon, B. Z. (2003). The organization of conceptual knowledge: the evidence from category-specific semantic deficits. *Trends in Cognitive Sciences*, 7(8), 354–361.

Culture and Categories (1 of 2)

Figure 8.7 Your Culture and Your Point of View

- (a) Which of these two pictures do you think a North American would be more likely to take?
 (b) Which two go together?



Source: (b) Adapted from Nisbett, R. E., & Masuda, T. (2003). Culture and point of view. *Proceedings of the National Academy of Sciences*, 100(19), 11163–11170. Copyright © 2003. Reprinted by permission of National Academy of Sciences.

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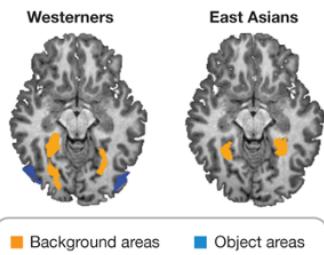
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Slide showing - Your Culture and Your Point of View

Culture and Categories (2 of 2)

Figure 8.8 Brain Activity Varies by Culture

Brain regions that are involved in object recognition and processing are activated differently in people from Western and Eastern cultures. Brain regions that are involved in processing individual objects are more highly activated when Westerners view focal objects against background scenery, whereas people from East Asian countries appear to attend to background scenery more closely than focal objects.



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Slide showing - Brain Activity Varies by Culture
 Myths in Mind: How Many Words for Snow?

- Inuit have many words for snow

- Aput = snow on the ground
- Gana = falling snow
- Exaggerated to dozens of words
- Canadians have many words for snow
 - Sticky snow
 - Drifting snow
 - Yellow snow

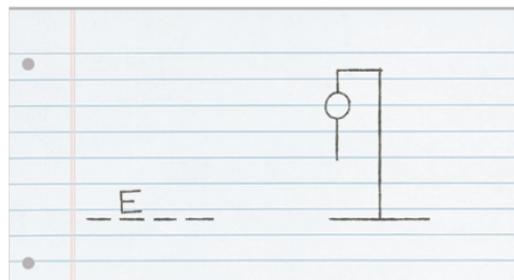
8.2 Learning Objectives

- Know the key terminology of problem solving and decision making.
 - Understand the characteristics that problems have in common.
 - Understand how obstacles to problem solving are often self-imposed.
 - Apply your knowledge to determine if you tend to be a maximizer or a satisficer.
 - Analyze whether human thought is primarily logical or intuitive.
- Defining and Solving Problems
- Problem solving (p. 304)
 - Algorithms (p. 304)
 - Heuristics (p. 304)

Defining and Solving Problems (2 of 2)

Figure 8.9 Problem Solving in Hangman

In a game of Hangman, your job is to guess the letters in the word represented by the four blanks to the left. If you get a letter right, your opponent will put it in the correct blank. If you guess an incorrect letter, your opponent will draw a body part on the stick figure. The goal is to guess the word before the entire body is drawn.



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Slide showing - Problem Solving in Hangman

Cognitive Obstacles (1 of 3)

Figure 8.10 The Nine-Dot Problem

Connect all nine dots using only four straight lines and without lifting your pen or pencil (Maier, 1930). The solution to the problem can be seen in Figure 8.11.



Source: Maier, N. F. (1930). Reasoning in humans. I. On direction. *Journal of Comparative Psychology*, 10(2), 115–143. American Psychological Association.

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Slide showing - The Nine-Dot Problem

Cognitive Obstacles (2 of 3)

Figure 8.12 The Five-Daughter Problem

Maria's father has five daughters: Lala, Lela, Lila, and Lola. What is the fifth daughter's name?



The fifth daughter's name is Maria.

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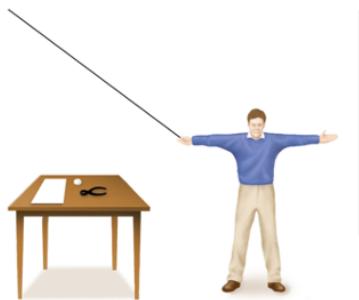
8 - 58

Slide showing - The Five-Daughter Problem

Cognitive Obstacles (3 of 3)

Figure 8.13 The Two-String Problem

Imagine you are standing between two strings and need to tie them together. The only problem is that you cannot reach both strings at the same time (Maier, 1931). In the room with you is a table, a piece of paper, a pair of pliers, and a ball of cotton. What do you do? For a solution, see Figure 8.16.



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Slide showing - The Two-String Problem

Representativeness and Availability

- Conjunction fallacy (p. 308)

- Representativeness heuristic (p. 308)

- Availability heuristic (p. 308)

Anchoring Effects

- Anchoring effect (p. 310)

– In what year did British Columbia become part of Canada?

– More affected when generated by individual

Framing Effects

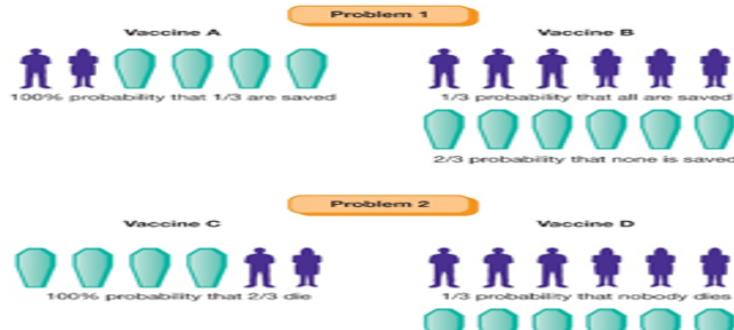
- Decision-making influenced by how problem is framed (p. 310)

- Example: Vaccine A vs. Vaccine B

Framing Effects (2 of 2)

Figure 8.18 Framing Effects

When people are asked which vaccine or treatment they would use to help a hypothetical group of villagers, the option they select is influenced by how the question is worded or framed. If the question is worded in terms of saving villagers, most people choose Vaccine A. If the question is worded in terms of killing villagers, most people choose Treatment D.



Source: Wade, C., & Tavris, C. (2002). *Invitation to Psychology*, 2nd ed., ©2002, p. 121. Adapted and electronically reproduced by permission of Pearson Education, Inc.. Upper Saddle River, New Jersey.

Slide showing - Framing Effects

Belief Perseverance and Confirmation Bias

- Belief perseverance (p. 310)

- Confirmation bias (p. 311)

- Can dramatically influence beliefs, especially for complex, emotionally-charged issues (e.g. politics)

What do we know about maximizing and satisficing?

- Two types of consumers

– Satisficers = “good enough”*

– Maximizers = evaluate every option

- Paradox of choice
- How can scientists explain maximizing and satisficing?

Working the Scientific Literacy Model: Maximizing and Satisficing in Complex Decisions (2 of 3)

How can scientists explain maximizing and satisficing?

Table 8.2 Satisfaction of Maximizers and Satisficers

	6 Alternatives	30 Alternatives	Difference
Maximizers	5.64	4.73	-0.91
Satisficers	5.44	6.00	+0.46

Source: Adapted from Dar-Nimrod et al. (2009). The Maximization Paradox: The costs of seeking alternatives. *Personality and Individual Differences*, 46, 631–635, Figure 1 and Table 1.

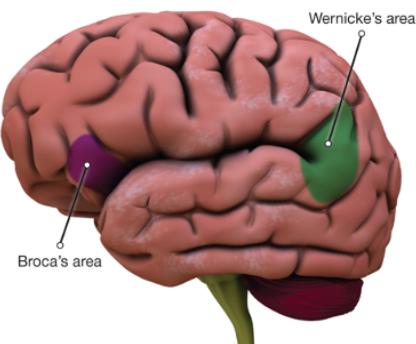
Slide showing - Satisfaction of Maximizers and Satisficers

- Can we critically evaluate this information?
 - Maximizers might expect more
 - Correlational research
 - Why is this relevant?
 - Planning for the future
- 8.3 Learning Objectives
- Know the key terminology from the study of language.
 - Understand how language is structured.
 - Understand how genes and the brain are involved in language use.
 - Apply your knowledge to distinguish between units of language such as phonemes and morphemes.
 - Analyze whether species other than humans are able to use language.

Early Studies of Language

Figure 8.20 Two Language Centres of the Brain

Broca's and Wernicke's areas of the cerebral cortex were among the first to be associated with language.



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Slide showing - Two Language Centres of the Brain

Properties of Language

- Language (p. 317)
- Unique features
 - Communicate objects and events not in present time and place
 - Produce new meanings
 - Passed down naturally to children

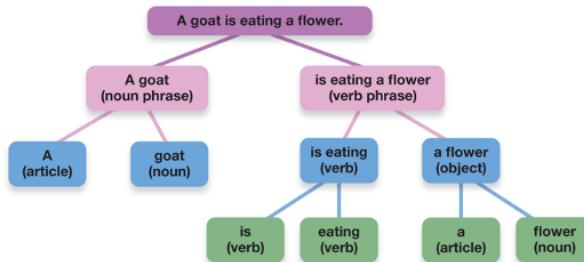
Phonemes and Morphemes: The Basic Ingredients of Language

- Phonemes (p. 318)
 - “T”
- Morphemes (p. 318)
 - Pig, ish, or pigish
 - Productivity
- Semantics (p. 318)

Syntax: The Language Recipe

Figure 8.21 Syntax Allows Us to Understand Language by the Organization of the Words

The rules of syntax help us divide a sentence into noun phrases, verb phrases, and other parts of speech.



Source: Adapted from S. Pinker. (1994). *The Language Instinct*. New York: HarperCollins.

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Slide showing - How syntax helps us to understand language

Pragmatics: The Finishing Touches

Table 8.3 Pragmatic Rules Guiding Language Use

The Rule	Flouting the Rule	The Implication
Say what you believe is true.	My roommate is a <i>giraffe</i> .	He does not <i>really</i> live with a giraffe. Maybe his roommate is very tall?
Say only what is relevant.	Is my blind date good-looking? <i>He's got a great personality</i> .	She didn't answer my question. He's probably not good-looking.
Say only as much as you need to.	I like my lab partner, but he's no <i>Einstein</i> .	Of course he's not Einstein. Why is she bothering to tell me this? She probably means that her partner is not very smart.

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Slide showing - Pragmatic Rules Guiding Language Use

The Development of Language

-Infants, sound perception, and language acquisition - Identifying

Sounds

- Fast mapping (p. 320)

The Development of Language (2 of 2)

Table 8.4 Milestones in Language Acquisition and Speech

Average Time of Onset (Months)	Milestone	Example
1–2	Cooing	Ahhh, ai-ai-ai
4–10	Babbling (consonants start)	Ab-ah-da-ba
8–16	Single-word stage	Up, mama, papa
24	Two-word stage	Go potty
24+	Complete, meaningful phrases strung together	I want to talk to Grandpa.



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Slide showing - Milestones in Language Acquisition and Speech
Sensitive Periods for Language

- Sensitive period
 - Brains are primed to develop language skills
 - Ability fades starting seventh year
 - Same with sign language

The Bilingual Brain

- Costs
 - Smaller vocabulary
 - Word access
- Benefits
 - Executive functions
 - Health benefits

Working the Scientific Literacy Model: Genes and Language

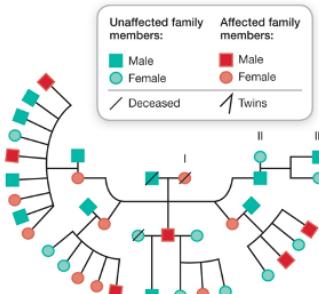
- What do we know about genes and language?
 - Language evolved to solve problems
 - Number of genes involved

- Which scientific evidence supports a genetic basis of language?
 - FOXP2 gene

Working the Scientific Literacy Model: Genes and Language (2 of 4)

Figure 8.22 Inheritance Pattern for the Mutated FOXP2 Gene in the KE Family

Family members who are “affected” have inherited a mutated form of the FOXP2 gene, which results in difficulty with articulating words. As you can see from the centre of the figure, the mutated gene is traced to a female family member and has been passed on to the individuals of the next two generations.



Source: Republished with permission of Nature Publishing Group, from Vargha-Khadem, F., Gadian, D. G., Copp, A., & Mishkin, M. (2005). FOXP2 and the neuroanatomy of speech and language, Fig. 1, *Nature Reviews Neuroscience*, 6, 131–138. Copyright 2005; permission conveyed through Copyright Clearance Center, Inc.

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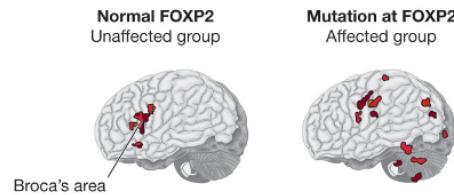
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Slide showing - Inheritance Pattern for the Mutated FOXP2 Gene in the KE Family

Working the Scientific Literacy Model: Genes and Language (3 of 4)

Figure 8.23 Brain Scans Taken While Members of the KE Family Completed a Speech Task

The unaffected group shows a normal pattern of activity in Broca's area, while the affected group shows an unusual pattern.



Source: Figure 1 republished with permission of Nature Publishing Group: Liégeois F., Baldeweg T., Connelly A., Gadian D. G., Mishkin M., Vargha-Khadem F. (2003). Language fMRI abnormalities associated with FOXP2 gene mutation. *Nature Neuroscience*, 6(11), 1230–1237. Permission conveyed through Copyright Clearance Center, Inc.

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Slide showing - Brain Scans Taken While Members of the KE Family Completed a Speech Task

- Can we critically evaluate this evidence?
 - Many genes work together

- FOXP2 not unique to humans
 - * Language is unique to humans

- Why is this relevant?
 - Links between genes and language

Can Animals Use Language?

- Chimpanzee Viki
 - Cross-fostered (p. 324)

- Four words

- Chimpanzee Washoe
 - ASL
 - * 200 signs

- Generalized words

- Bonobo Kanzi
 - Lexigrams
 - * 350 symbols

- 3,000 spoken words

Note: the slides are intended to supplement the information found in your textbook. If you are having trouble viewing them, they can also be downloaded by scrolling to the bottom of the screen and clicking on the “Unit 1- Slides” link.*

Learning Activities:

Chapter 2 Review Quiz

- Practice Quiz to self-assess your own comprehension of important terms from Chapter 2.
- Not for formal evaluation.

Problem Solving Activity

- Solve some problems by utilizing some of the cognitive strategies we learned about in this topic.

Problem Solving Practice

- Explore problem solving activities and reflect on the strategies you incorporate as you discover solutions.

Introduction to Visualization

- Article introduces visualization and provides an opportunity to practice this skill.

Learning Lab Preparation

- Each topic will provide a question or scenario for you to consider prior to attending your Learning Lab. Be sure to carefully consider each prompt as you will be expected to contribute to the group discussion.

Resources

Here are some additional resources that will help you complete this unit:

- Krause, M., Corts, D., Smith, S. C., & Dolderman, D. (2018). *Revel for An Introduction to Psychological Science, 2nd Canadian Edition*. Pearson Ed.
- Other resources will be provided online.

1.1 What is Psychology

We begin our course with a quick challenge: ***In your own words, define “psychology.”***

According to your definition, how is psychology different from other academic areas that would study humans (*for example, philosophy, literature, or history*)? If you said “Psychology is different because it uses the scientific method”- give yourself a pat on the back

You will begin your study of the scientific method by reading your textbook. The parable below (*from Philipchalk’s Social Psychology textbook*), however, helps illustrate the scientific method with three “helpful” approaches to a problem, including a simple experiment:

Once upon a time there were three brothers. One day while they were working in their father’s field, they saw an old man coming along the road. The old man greeted them, and then struggled on along the road, limping terribly. After that, every day at the same time, the brothers greeted the old man and watched as he hobbled by. When a month had passed, they were so impressed that they each did something. The first brother wrote a compelling story about perseverance in the face of the ravages of old age. It encouraged many people. The second brother painted a moving portrait of the old man, stooped over and limping along. People were inspired. The third brother, who had observed the old man very closely, asked him one day if he could exchange shoes with him. The old man was surprised, but he gladly agreed. When the old man walked away he did not limp. The next day the third brother gave the old man his shoes back and watched as he limped on his way. On the third day, the brother again exchanged

shoes with the old man. Then he took the old man's shoes to a shoemaker and had them repaired. When the brother gave them back to the old man he was delighted. The old man put on the shoes, thanked the brother, and walked away without a limp.

Although each brother made a positive contribution, the third brother solved the man's problem because he discovered its cause. To do this, **he used the scientific method and he conducted an experiment (Philipchalk, 1994).**

I think psychology is one of the most interesting areas of study there is, first, because it studies people, people like you and me, and we're interesting Second, I like psychology because it is so broad. Psychologists, as you will soon see, study everything from nerve conduction in single cells, all the way to the influence of groups on our behaviour—and everything in between. Finally, psychologists don't just speculate and theorize, they look for evidence for their ideas. If they don't find sufficient evidence, they change their ideas; and I like that. Which leads us back to the scientific method and how psychology began.

Learning Activity

Chapter 2 Review Quiz

In order to review some of the major concepts from the text, take the following unmarked quiz. Although you will not be evaluated on these terms, they will assist you in the assignments for this course.

1.2 Thinking and Problem Solving

Thinking

“So God created man in his own image, in the image of God created he him; male and female created he them.” (Genesis 1:27)

“I will praise thee; for I am fearfully and wonderfully made.” (Psalm 139:14)

The human image of God means many things. It seems that one aspect of this image is our thinking ability, including our ability to solve problems and speak. How important is our thinking ability in our reflection of God's image? What does your answer mean for people with less ability? What about people who lose abilities due to accident or disease (e.g., Alzheimer's patients)?

Algorithms & Heuristics

Algorithms and heuristics can be confusing. An algorithm is a guaranteed route to a solution, but it may be the long way around to success. If you knew a person lived somewhere in a large residence hall, an algorithm for finding that individual would be to knock on every door until you located the person.

Heuristics, on the other hand, suggest that you would first ask friends where to locate the person, or check a list, then knock on the appropriate door to locate the person. Another way to think of heuristics is the phrase “rule of thumb.” Can you think of some rules of thumb that you have learned from your various job experiences? They may have to do with how long to cook a hamburger, or when to refill a machine, or how to get a date.

Consider the following example and explanation taken from *Invitation to Social Psychology* by Ron Philipchalk:

In the second part of the book, they tell you how to crack a safe. There are all kinds of ninny-pinny, dopey things, like “It might be a good idea to try a date for the combination, because lots of people like to use dates.” Or “Think of the psychology of the owner of the safe, and what he might use for the combination.” And “The secretary is often worried that she might forget the combination of the safe, so she might write it down in one of the following places—along the edge of her desk drawer, on a list of names and addresses . . .” and so on . . .

I also did a certain amount of systematic study. For instance, a typical combination was 69-32-21. How far off could a number be when you’re opening the safe? If the number was 69, would 68 work? Would 67 work? On the particular locks we had, the answer was yes for both, but 66 wouldn’t work. You could be off by two in either direction. That meant you only had to try one out of five numbers, so you could try zero, five, ten, fifteen, and so on. With twenty such numbers on a wheel of 100, that was 8000 possibilities instead of the 1,000,000 you would get if you had to try every single number. . . .

*I practiced all the time on my own safe so I could do this process as fast as I could and not get lost in my mind as to which number I was pushing and mess up the first number. Like a guy who practices sleight of hand, I got it down to an absolute rhythm so I could try the 400 possible back numbers in less than half an hour. That meant I could open a safe in a maximum of eight hours—with an average time of four hours. (*Surely You’re Joking Mr. Feynman*, p. 140)*

Mr. Feynman’s safecracking system succeeds because he methodically works through every possible combination. By logical analysis he has discovered which 8,000 possibilities out of 1,000,000 he needs to try. We call this type of logical step-by-step procedure for solving problems an algorithm (Newell & Simon, 1972; Simon, 1981). If you use the correct algorithm your success is guaranteed.

But sometimes it can take a long time to discover the correct algorithm. And employing an algorithm is often time consuming. Mr. Feynman spent days developing his system and it took hours to open a safe. You could certainly open a safe much faster if you found the combination on the edge of the secretary’s drawer.

The shortcuts Mr. Feynman calls “ninny-pinny, dopey things” are examples of heuristics. Heuristics are rule-of-thumb strategies for solving problems, shortcuts we develop from our experience. Heuristics often help us eliminate improb-

able alternatives and guide us to the most likely solution to a problem. Despite his appreciation for algorithms, Mr. Feynman discovered heuristics can be useful. He found, for example, that safe owners often did not bother to change the factory set combination when they received a new safe. In one office building the temporary factory combinations 25-0-25 or 50-25-50 opened one safe in five

Algorithms and heuristics are examples of cognitive strategies—mental plans we use to make decisions and solve problems.

Activity: Read and Reflect

In addition to the content above, you are also responsible for reading through the following:

Krause et. al (2018). Revel for An Introduction to Psychological Science, 2nd Canadian Edition. Chapter 8

While all of these pages may not relate directly to this unit’s discussion, consistent reading will help you keep pace, as well as provide necessary background knowledge when you need it.

Problem Solving Activity

In this lesson, we spent time exploring cognitive strategies used to solve problems and make decisions. We now have an opportunity to practice this on our own. Take a look at the following problems and see if you can find a solution. As you work through the problems, think about what cognitive strategies you are implementing as you make each decision:

Problem A

- Take a look at the following Roman Numeral: **IX**
- Now add one line to the Roman numeral **IX** to make it six

[Click here for the solution.](#)

The answer is to add a curved line shaped like an “S” (i.e., “SIX”). In writing, the problem looks simple, but you might want to try it aloud on a friend. There is a mental set that one must add a straight line and have some form of Roman numeral on the page.

Problem B

Your task is to plant trees on Arbor Day. You have ten trees that must be planted in five rows of four trees each. How would you plant the trees?

[Click here for the solution.](#)

The answer is that you would arrange them at the vertices and cross-points of a 5-pointed star

Problem Solving Practice

Below is a website that provides more opportunity to work through, and solve, some problems. Specifically, this resource explores the idea of **Assumptions** and the role assumptions play when solving problems. Furthermore, this is a valuable resource as it also explores other impor-

tant techniques to be implemented when solving problems.

Click on the following link and read through the information as you continue to practice your problem solving:

Virtual Salt

Learning Lab Preparation

Your Learning Lab for this unit will focus on group discussion as explore the topics of this unit in more detail. As you prepare for your Learning Lab, one possible scenario that discussion will focus on is below- please prepare some thoughts to share with the group:

In the largest sense, society is breaking into two classes:

The first class are people who know how to think. These people realize that most problems are open to examination and creative solution. If a problem appears in the lives of these people, their intellectual training will quickly lead them to a solution or an alternative statement of the problem. These people are the source of the most important product in today's economy – ideas.

The second class, the vast majority of society, are people who cannot think for themselves. I call these people ‘idea consumers’ – metaphorically speaking, they wander around in a gigantic open-air mall of facts and ideas. The content of their experience is provided by television, the Internet and other shallow data pools. These people believe collecting images and facts makes them educated and competent, and all their experiences reinforce this belief. The central, organizing principle of this class is that ideas come from somewhere else, from magical persons, geniuses, ‘them.’

Consider the following prompts to help better prepare for the discussion:

- ***Do you agree or disagree with this claim?***
- ***Do you know people that fit in the second category? What causes this difference? How might it be changed?***

1.3 Cognitive Biases

As if the biases mentioned in the textbook are not enough, here are a few more to watch out for, taken from Invitation to Social Psychology by Ron Philipchalk.

The Gambler’s Fallacy

Jill and Bob are the parents of three boys. Jill is pregnant again, and she and Bob are hoping the baby is a girl. In fact, they are confident the baby must be a girl because their previous three children were boys. If you agree with Jill and Bob that the baby is more likely to be a girl than a boy, then you—along with Jill and Bob—may be committing the gambler’s fallacy. No matter how many boys have been born, the likelihood of a girl being born is the same as it

always was, approximately 50 % (assuming no biological abnormality or medical intervention).

The gambler's fallacy arises from our failure to recognize the independence of unconnected events. The result of a coin toss does not depend on the outcome of previous tosses; a child's sex at conception is not affected by the sex of prior conceptions; the cards dealt in a hand are not influenced by the distribution of cards on the previous deal; and so on. Each event in these sequences is independent of the others, although we tend to think that somehow there must be a connection.

The Anchoring and Adjustment Heuristic

First impressions of a person exert a powerful influence on the way we interpret subsequent information about that person. This effect may be an example of a more general principle called the anchoring and adjustment heuristic. Information we use to establish a starting value (or anchor point) tends to be more influential in our decisions than subsequent information we use to adjust this value (Tversky & Kahneman, 1974).

Daniel Cervone and his colleagues found, for example, that initial success or failure on a task can establish an anchor for feelings of self-efficacy. Students who initially succeed on a task and later fail have higher feelings of self-efficacy than students who initially fail and later succeed even though their overall level of success is the same. Final judgments of self-efficacy are biased in the direction of initial judgments (Cervone & Palmer, 1990; Peake & Cervone, 1989).

Salespeople often use the anchoring and adjustment heuristic to their advantage. Some real estate agents routinely show their clients an over-priced and unattractive house first in order to set an anchor point which, in effect, says, "The kind of house you want is going to cost a lot." Once established, this expectation of high price changes very slowly and the clients are relieved to find an acceptable house in their price range (Northcraft & Neale, 1987).

Car dealers too like us to set our sights high. Their so-called list price establishes an anchor or reference point that overshadows our subsequent evaluations, as I recently discovered. In looking for a certain model of car, I was attracted to a particular vehicle with an asking price of \$3,800 ("reduced from \$4,200"). I believed this price was too high, so I bargained with the vendor. Eventually, I bought the car for \$2,800. Did the high original asking price affect my decision? Yes, it probably did. Subsequent events indicated I still paid too much. I later bought an identical model in only slightly poorer condition for \$2,000. I was a victim of the anchoring and adjustment heuristic.

Contrast Effects

My car purchase also illustrates a related distortion in judgment, the contrast effect. In contrast to the original price of \$4,200 my offer of \$2,800 seemed like a bargain. John Lynch, Jr. and his colleagues (1991) found a similar effect with

students. The students rated low-priced cars as less expensive when they were considered alongside high-priced cars (contrast effect), compared to when they were considered along with other low-priced cars (no contrast).

Research by Douglass Kenrick and his colleagues indicates that we also show contrast effects in evaluating other people. In one study (1980), male college students rated the attractiveness of potential blind dates. Subjects who gave their ratings after watching a TV show with attractive female actresses rated the potential dates as less attractive than did subjects who rated their potential dates before watching the show. In another study (1989), after viewing centerfold erotica, men found average women—and even their own wives—less attractive.

Heuristics & Biases

By now you may be wondering why we fall prey to so many cognitive biases and errors. Well don't worry; our biases are actually a side effect of our cognitive efficiency. Most of our biases result from using heuristics, rules of thumb, or mental shortcuts that work very well. Sometimes they let us down, but overall, they improve the speed with which we handle mental problems—much like Mr. Feynman's safe-cracking tricks. As we noted in the previous discussion, you could certainly open a safe much faster if you found the combination on the edge of the secretary's drawer. However, you won't always find the combination there, so limiting yourself to this approach would produce a kind of "cognitive bias" in your safe-cracking strategy.

RESOURCES: Online Articles of Interest

For additional information and examples, click on the link below:

Cognitive Biases

Learning Lab Preparation

Another focus of our discussion during our Learning Lab for this unit, will focus on biases. In order to prepare for participation in this discussion, consider the guiding prompt below- be sure to have some thoughts to contribute to the discussion:

Give an example from your own experience of one of the cognitive biases, discussed here or in the textbook, that you have fallen prey to.

1.4 Language and Thought

Linguistic Relativity

Benjamin Whorf's linguistic relativity hypothesis suggests that our language affects the way we see the world. Do you know any examples of weather terms, for example, that are unique to one area? Could knowing these terms help you to notice differences in weather that outsiders might not notice? What about in sports? Sports fans usually know terms to describe certain strokes or plays. Does knowledge of these terms affect perception? Can you think of some examples? What does it mean to "clothesline" someone, or "post-up," or "birdie?"

Imaginary Practice

Mental practice is now widely accepted in many areas. The following excerpt is taken from the **GolfPsych** website. You may find further examples there as well.

"You can practice the mental aspects of your game anytime. We encourage our clients to do imagery practice of playing well in upcoming tournaments. This imaginary practice includes seeing the course, situation, doing a full mental pre-shot routine and seeing a good shot. You should also be feeling the way you do when you play your best. In addition, you should be practicing deep breathing and quieting your mind off-course. This is an extremely valuable tool that must be practiced to be effective. The mental game is much more than thinking positive thoughts. Take our Personality Assessment and get your own GolfPsych Report to receive our recommendations for you based on your personality and our research. Reading our book will also help you understand all aspects of a good mental game. During your practices and before your rounds you should also be practicing your mental skills."

Activity: Introduction to Visualization

In this Topic, we learned about the notion of mental practice. Below is an article that will take you through the process of visualization. Take some time to read the article and practice for yourself. Pay careful attention to your thoughts, your focus, your feelings as you engage in the process.

- **Introduction to Visualization**

Learning Lab Preparation

The subject of our focus for this Topic has been on the power of language in influencing how we see the world. Our discussion during Learning Lab this week will focus on the importance of language in the Bible (and other religious writings) and how it "shapes" how we see the world.

To prepare for this discussion, consider the following prompt:

Give some examples of the importance of language in the Bible

or other religious writings.

1.5 Animal Language

Language

As a Christian I am pleased to see in psychology the resurgence of interest in studying some of what Ronald Koteskey (1980) calls humanity's "God-like" characteristics, creativity, imagery, and particularly language.

The use of words is extremely important in Christian scripture. God spoke the creation into existence; Jesus is called the Word; the significance of Babel and Pentecost are closely linked to the importance of language; and there is great power associated with an individual's name. In addition, Christians have usually considered the ability to communicate with words to be part of the image of God in man. However, recently several researchers claim to have taught animals, usually chimpanzees or apes, to communicate through language. Using sign language, blocks, or keyboards and computer-generated voices, the animals have signaled their needs and even generated word combinations.

But is this truly language? There is no doubt that the animals are using symbols as signs to stand for objects and actions. However, there are significant questions being raised about the comparison with human language.

Christians need to think carefully about what they mean when they talk about the image of God in man. The area of human learning and psycholinguistics offers some intriguing questions for thoughtful Christians. What is the origin of human speech-is it learned (as Skinner would say) or largely innate (as Chomsky would say)? Is human speech unique? Do the studies of language in animals necessitate a redefinition of the uniqueness of man? (Based on Psychology and Christianity by Ron Philipchalk, p. 102)

RESOURCES: Online Articles of Interest

To add to our exploration of this topic, take a moment to read the following articles:

- [Chimp Talk Debate: Is It Really Language?](#)
- [Animal Language and Cognition Projects](#)

Activity: Learning Lab Preparation

Finally, take a moment to consider the following questions:

How important for our understanding of who we are as humans is the distinctiveness of our language ability? Is it a sign of the image of God?

Be prepared to share your thoughts during discussion at your Learning Lab.

Assessment

While there is no “formal” assignment that you will be responsible for submitting for Unit 1, you will be expected to participate in discussion during your Learning Lab. Your facilitator will be providing a participation mark based on your contributions. Below is some information to consider prior to attending your Learning Lab:

Active participation in group exercises, reflection, and critical discourse is an essential component of this course. You are expected to show respect for all members of the course, both in your speech and actions. Contribute by actively observing and listening, raising thoughtful questions, examining relevant issues, building on others’ ideas, analyzing and evaluating the group’s thinking, synthesizing key points, and expanding the group’s perspectives. Take care not to dominate a conversation, giving space for others to speak. When in small groups help maintain the focus, flow, and quality of conversations, and take the initiative to invite others (particularly those who are quiet) to speak.

Rubric for Participation in Learning Labs

Emerging (0-64%)	Developing (65-89%)	Mastering (90-100%)
Never to almost never: Demonstrates active listening (as indicated by disengaged body language and no to rare comments that build on others' remarks), Initiates any contributions in class or small groups, Makes insightful or constructive comments, Helps maintain a supportive space for others to speak.	Sometimes to fairly often: Demonstrates active listening (as indicated by somewhat to often engaged body language and comments that build on others' remarks), Initiates a contribution at least once in a class or small group discussion; Makes insightful or constructive comments, Helps maintain a supportive space for others to speak.	Very often to nearly always: Demonstrates active listening (as indicated by fully engaged body language and comments that build on others' remarks), Initiates more than one contribution in a class or small group discussion, Makes insightful or constructive comments, Creates a space for others to speak and takes initiative to include others.

Checking your Learning

Before you move on to the next unit, check that you are able to:

- Define key terminology related to principles of scientific research, research designs, and statistics.
- Explain the five characteristics of quality scientific research, and the pros and cons of descriptive, correlational, and experimental research designs.
- Determine how biases might influence the outcome of a study and how experiments help demonstrate cause-and-effect relationships.
- Apply the concepts of reliability and validity to examples and concepts of experimental methods to research examples.
- Assess whether anecdotes, authority figures, and common sense are reliably truthful sources of information.

- Understand what it means for variables to be positively or negatively correlated and how and why psychologists use significance tests.

Chapter 2

Intelligence Testing

Overview

In this unit, you will learn about techniques and tools for measuring intelligence, different theories as to what constitutes intelligence, and the biological, environmental, and behavioural factors that influence intelligence.

Topics

This unit is divided into the following topics:

1. What is Intelligence?
2. Extremes of Intelligence
3. Nature-Nature and IQ

Learning Outcomes

By the end of this unit, students will be able to:

- Know and define the key terminology associated with understanding intelligence, intelligence testing, and heredity, environment, and intelligence.
- Understand the reasoning behind the eugenics movements and its use of intelligence tests, why intelligence is divided into fluid and crystallized types, and the genetic basis of intelligence.
- Apply the concepts of entity theory and incremental theory to help kids succeed in school, to identify examples from the triarchic and multiple theories of intelligence, and to recognize environmental and behavioural

effects on intelligence to understand how to enhance your own cognitive abilities.

- Analyze why it is difficult to remove all cultural bias from intelligence testing and whether teachers should spend time tailoring lessons to each individual student's learning style.

Activity Checklist

Here is a checklist of learning activities you will benefit from in completing this unit. You may find it useful for planning your work.

Read and Reflect

- Read *Krause et al. (2021). Revel for An Introduction to Psychological Science, 3rd Canadian Edition*

- Review **Unit 2 - Slides**

CLICK HERE

An Introduction to Psychological Science - Chapter 9: Intelligence Testing

- Chapter 9 – Intelligence Testing
 - Biblical Word Study Related to Ch. 8

Proverbs 2:6

- ⁶ For the LORD gives wisdom, and from his mouth come knowledge and understanding.

Greek Word Study

- Wisdom
 - Gr. Σοφία (Sophia) (Noun) – wisdom in general, knowledge; ability; practical wisdom, prudence; learning, science; scientific skill; professed wisdom, human philosophy, superior knowledge and enlightenment; in N.T. divine wisdom, Christian enlightenment

- Wise
 - Gr. Σοφος (Sophos) (Adjective) – wise generally; shrewd, clever; learned, intelligent; in N.T. divinely instructed; furnished with Christian wisdom, spiritually enlightened

- Intelligence
 - Gr. Συνησις (Noun) – pr. a sending together, a junction, as of streams; met. understanding, intelligence, discernment; the understanding, intellect, mind

- Intelligent
 - Gr. Συνητοσ (Synetos) (Adj.) – intelligent, discerning, wise,

prudent (cautious; worldly wise; exercising sound judgment)

The Psychology of Wisdom

- Difficult life dilemmas:
 - “A 15 year old girl wants to get married right away. What should one/she do and consider?”
- Or, “Imagine a good friend of yours calls you up and tells you that she can’t go on anymore and has decided to commit suicide. What would one/you be thinking about? How would one deal with this situation?”
- Or, “A 60 year old widow has recently completed a college degree and opened a business, only to learn that her son has been left alone with two small children to care for. What should she do?”

Modules

9.1: Measuring Intelligence

9.2: Understanding Intelligence

9.3: Biological, Environmental, and Behavioural Influences on Intelligence



Leilani Muir, who passed away in Alberta in 2016.

The Canadian Press/Edmonton Journal.

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Modules

9.1 Learning Objectives

- Know the key terminology associated with intelligence and intelligence testing.
- Understand the reasoning behind the eugenics movements and its use of intelligence tests.
- Apply the concepts of entity theory and incremental theory to help kids succeed in school.

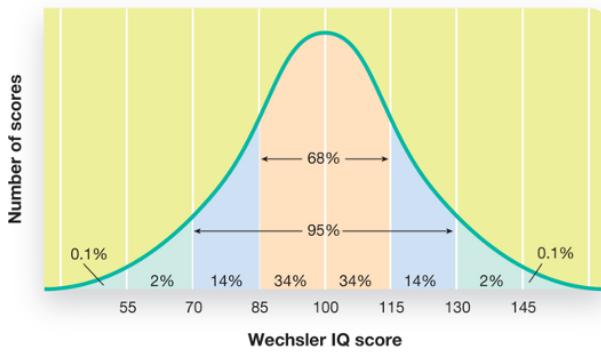
- Analyze why it is difficult to remove all cultural bias from intelligence testing.

Different Approaches to Intelligence Testing (1 of 2)

- Sir Francis Galton
 - Anthropometrics (p. 329)
- Alfred Binet
 - Intelligence (p. 330)
 - Mental age (p. 330)
- Lewis Terman
 - Stanford-Binet Test (p. 330)
- William Stern
 - Intelligence Quotient (IQ) (p. 330)

Different Approaches to Intelligence Testing (2 of 2)

Figure 9.1 The Normal Distribution of Scores for a Standardized Intelligence Test



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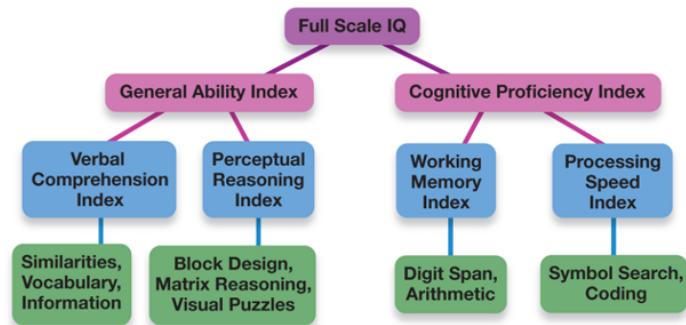
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Slide showing - The Normal Distribution of Scores for a Standardized Intelligence Test

The Wechsler Adult Intelligence Scale (1 of 2)

Figure 9.2 Subscales of the Wechsler Adult Intelligence Scale



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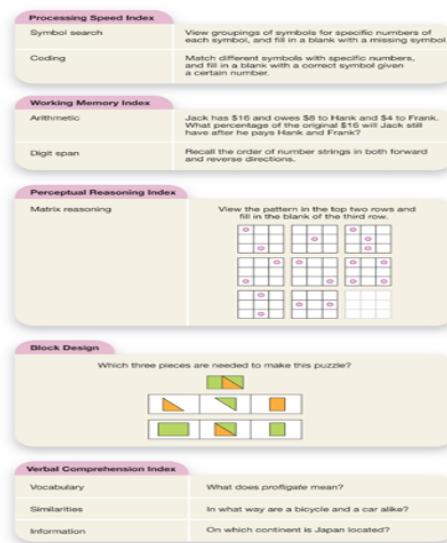
9 - 13

Slide showing - Subscales of the Wechsler Adult Intelligence Scale

The Wechsler Adult Intelligence Scale (2 of 2)

Figure 9.3 Types of Problems Used to Measure Intelligence

These hypothetical problems are consistent with the types seen on the Wechsler Adult Intelligence Scale.



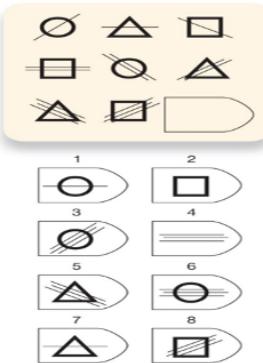
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Slide showing - The Wechsler Adult Intelligence Scale

Raven's Progressive Matrices

Figure 9.4 Sample Problem from Raven's Progressive Matrices

Which possible pattern (1–8) should go in the blank space? Check your answer at the end of the source line, below.



Source: "Sample Problem from Raven's Progressive Matrices," NCS Pearson, 1998. Answer to Figure 9.4: Pattern 6.

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Slide showing - Sample Problem from Raven's Progressive Matrices
The Checkered Past of Intelligence Testing

- IQ Testing and Eugenics
 - Historical context
 - Social Darwinism
 - Eugenics

The Race and IQ Controversy

- Racial differences in IQ scores Problems with the racial superiority interpretation
 - Culturally biased test content
 - Culturally biased test process
 - Stereotype threat (p. 336)

Working the Scientific Literacy Model: Beliefs About Intelligence

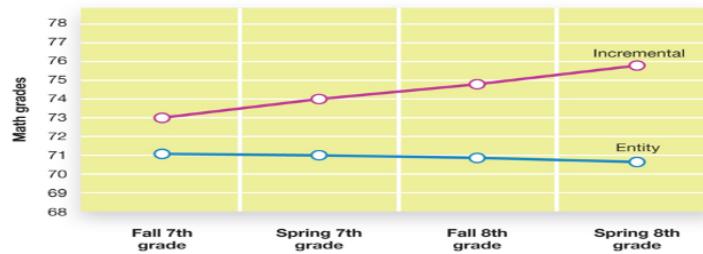
- What do we know about the kinds of beliefs that may affect test scores?
 - Entity theory (p. 336)
 - Incremental theory (p. 336)
- How can science test whether beliefs affect performance?

Working the Scientific Literacy Model: Beliefs About Intelligence (2 of 3)

How can science test whether beliefs affect performance?

Figure 9.5 Personal Beliefs Influence Grades

Students who held incremental views of intelligence (i.e., the belief that intelligence can change with effort) show improved grades in math compared to students who believed that intelligence was an unchanging entity (Blackwell et al., 2007).



Slide showing - Personal Beliefs Influence Grades

- Can we critically evaluate this research?
 - Why is this relevant?
- 9.2 Learning Objectives
- Know the key terminology related to understanding intelligence.
 - Understand why intelligence is described as a hierarchy.
 - Understand intelligence differences between males and females.
 - Apply your knowledge to identify examples that reflect fluid vs. crystallized intelligence.
 - Analyze whether teachers should spend time tailoring lessons to each individual student's learning style.

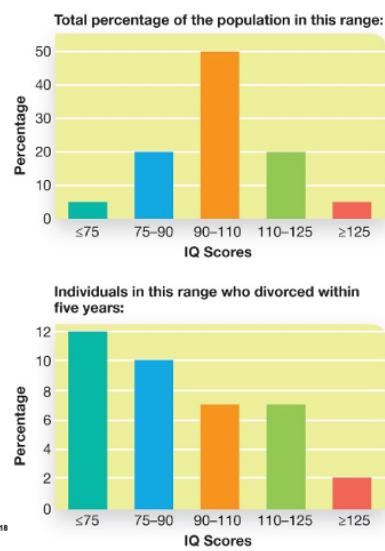
Intelligence as a Single, General Ability

- Spearman's general intelligence
 - General intelligence factor, "g" (p. 340)

Intelligence as a Single, General Ability (2 of 3)

Figure 9.6 General Intelligence Is Related to Many Different Life Outcomes

General intelligence (g) predicts not just intellectual ability, but also psychological well-being, income, and successful long-term relationships.



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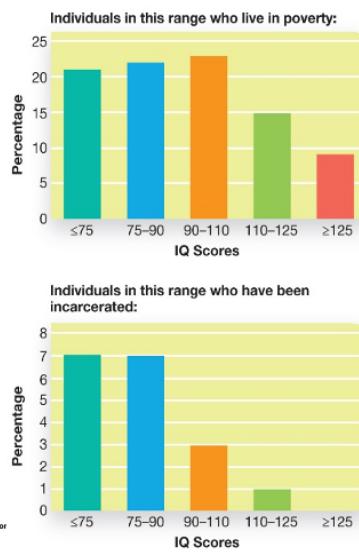
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Slide showing - General Intelligence Is Related to Many Different Life Outcomes

Intelligence as a Single, General Ability (3 of 3)

Figure 9.6 General Intelligence Is Related to Many Different Life Outcomes

General intelligence (g) predicts not just intellectual ability, but also psychological well-being, income, and successful long-term relationships.



Source: Based on "General intelligence is related to various outcomes," adapted from Herrnstein, R., & Murray, C. (1994). *The bell curve: Intelligence and class structure in American life*. New York: Free Press.; Gottfredson, L. (1997). Why g matters: Complexity of everyday life. *Intelligence*, 24, 79–132.

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Slide showing - General Intelligence Is Related to Many Different Life Outcomes

Spearman's General Intelligence

- Does "g" tell us the whole story?

Intelligence as Multiple, Specific Abilities

- Spearman
 - Two factors: "g" and "s"
- Thurstone
 - 7 primary mental abilities
- Hierarchical model of intelligence
 - Nesting

Working the Scientific Literacy Model: Testing for Fluid and Crystallized Intelligence (1 of 4)

How can science test whether beliefs affect performance?

Figure 9.7 Fluid and Crystallized Intelligence

Fluid intelligence is dynamic and changing, and may eventually become crystallized into a more permanent form.



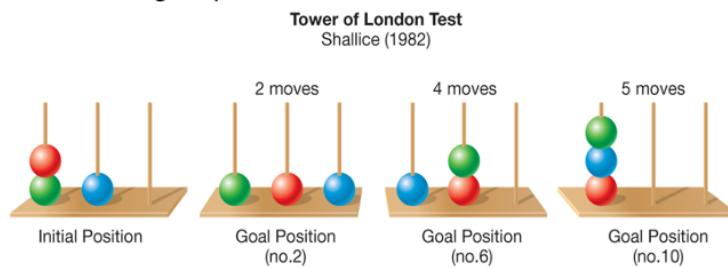
Slide showing - Fluid and Crystallized Intelligence

Working the Scientific Literacy Model: Testing for Fluid and Crystallized Intelligence (2 of 4)

How can science help distinguish between fluid and crystallized intelligence?

Figure 9.8 Measuring Fluid Intelligence

The Tower of London problem has several versions, each of which requires the test taker to plan and keep track of rules. For example, the task might involve moving the coloured beads from the initial position so that they match any of the various end goal positions.



Slide showing - Measuring Fluid Intelligence

Working the Scientific Literacy Model: Testing for Fluid and Crystallized Intelligence (3 of 4)

How can science help distinguish between fluid and crystallized intelligence?

Figure 9.9 Measuring Crystallized Intelligence

Crystallized intelligence refers to facts, such as names of countries.



Slide showing - Measuring Crystallized Intelligence

- Can we critically evaluate crystallized and fluid intelligence?
 - Gf is a blend of several different cognitive abilities

– Gf and Gc are not entirely separable
Why is this relevant?

- Stereotypes related to intelligence and age

Multiple Intelligences (1 of 2)

Table 9.1 Gardner's Proposed Forms of Intelligence

Verbal/linguistic intelligence	The ability to read, write, and speak effectively
Logical/mathematical intelligence	The ability to think with numbers and use abstract thought; the ability to use logic or mathematical operations to solve problems
Visuospatial intelligence	The ability to create mental pictures, manipulate them in the imagination, and use them to solve problems
Bodily/kinesthetic intelligence	The ability to control body movements, to balance, and to sense how the body is situated
Musical/rhythmic intelligence	The ability to produce and comprehend tonal and rhythmic patterns

Slide showing - Gardner's Proposed Forms of Intelligence

Multiple Intelligences (2 of 2)

Table 9.1 Gardner's Proposed Forms of Intelligence

Interpersonal intelligence	The ability to detect another person's emotional states, motives, and thoughts
Self/intrapersonal intelligence	Self-awareness; the ability to accurately judge your own abilities, and identify your own emotions and motives
Naturalist intelligence	The ability to recognize and identify processes in the natural world—plants, animals, and so on
Existential intelligence	The tendency and ability to ask questions about purpose in life and the meaning of human existence

Source: The Nine Types of Intelligence by Gardner, H. (2006). *Multiple Intelligences: New Horizons in Theory and Practice*. New York: Basic Books.

Slide showing - Gardner's Proposed Forms of Intelligence

Myths in Mind: Learning Styles

- Visual learners should learn more with visual materials?
 - Lack of supporting evidence

- Focus on learning the meaning

PSYCH @ The NHL

- Head injuries in the NHL

- Chronic traumatic encephalopathy

- ImPACT

- Regular testing checks for declines on specific abilities

The Battle of the Sexes?

- Differences in intelligence?

- No sex differences found

- Male scores have greater variability

- Do males and females have unique cognitive abilities?

- Females: verbal, memory, emotions

- Males: visuospatial

- Stereotype threat

9.3 Learning Objectives

- Know the key terminology related to heredity, environment, and intelligence.

- Understand different approaches to studying the genetic basis of intelligence.

- Apply your knowledge of environmental and behavioural effects on intelligence to understand how to enhance your own cognitive abilities.

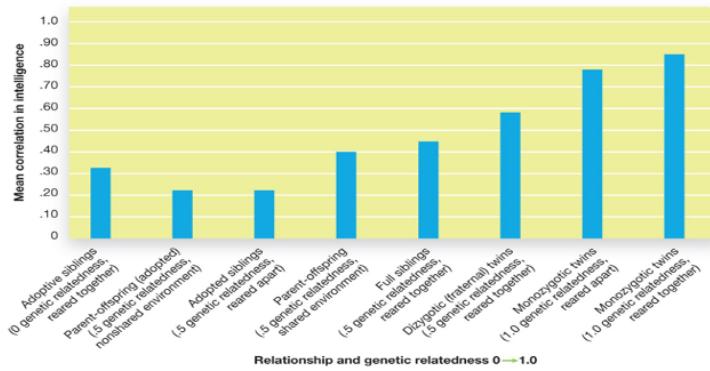
- Analyze the belief that older children are more intelligent than their younger siblings.

Biological Influences on Intelligence

The genetics and heritability of intelligence

Figure 9.11 Intelligence and Genetic Relatedness

Several types of comparisons reveal genetic contributions to intelligence (Plomin & Spinath, 2004). Generally, the closer the biological relationship between people, the more similar their intelligence scores.



Slide showing - Intelligence and Genetic Relatedness

Working the Scientific Literacy Model: Brain Size and Intelligence

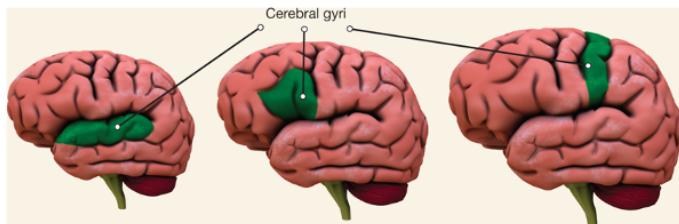
- What do we know about brain size and intelligence?
 - Once believed brain size was related to intelligence
 - * Contributed to prejudice

Working the Scientific Literacy Model: Brain Size and Intelligence (2 of 3)

How can science explain the relationship between brain size and intelligence?

Figure 9.12 Does Intelligence Increase with Brain Size?

While the size of the brain may have a modest relationship to intelligence, the convolutions or “gyri” along the surface of the cortex are another important factor: Increased convolutions are associated with higher intelligence test scores.



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Slide showing - Does Intelligence Increase with Brain Size?

- Can we critically evaluate the issue?
 - Which abilities underlie the correlation?
 - Third-variable problem
- Why is this relevant?
 - Brain size and IQ used to understand clinical conditions
 - * Prolonged anorexia nervosa and alcohol abuse

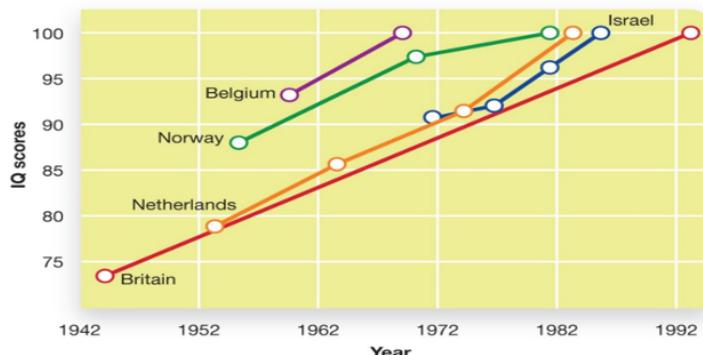
Environmental Influences on Intelligence

- Nutrition
- Socioeconomic Status (SES)
- Stress
- Birth Order
- Education

The Flynn Effect: Is Everyone Getting Smarter?

Figure 9.13 The Flynn Effect

Throughout the 20th century, there had been a general trend toward increasing IQ scores. This trend, called the Flynn effect, seems to have slowed, or maybe even reversed in the 2000s.



Source: Flynn, J. R. (1999). Searching for justice: The discovery of IQ gains over time. *American Psychologist*, 54, 5–20.

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Slide showing - The Flynn Effect

Behavioural Influences on Intelligence

- Brain training programs

- Nootropic drugs (p. 358)

Note: the slides are intended to supplement the information found in your textbook. If you are having trouble viewing them, they can also be downloaded by scrolling to the bottom of the screen and clicking on the “Unit 2 - Slides” link.*

Intelligence Testing

- Take some intelligence tests for yourself. As you complete them, consider how they might be considered beneficial, and controversial, as measures of intelligence.

I.Q. Testing

- Take some I.Q. Tests. Consider how valid and reliable these results are and think about how meaningful the results are.

Ch. 9 Key Terms Quiz

- Practice quiz to assess how well you know key terms from Chapter 9.
- Not for formal evaluation.
- Each topic will provide a question or scenario for you to consider prior to attending your Learning Lab. Be sure to carefully consider

each prompt as you will be expected to contribute to the group discussion.

Resources

Here are some additional resources that will help you complete this unit:

- Krause, M., Corts, D., Smith, S. C., & Dolderman, D. (2018). *Revel for An Introduction to Psychological Science, 2nd Canadian Edition*. Pearson Ed.
- Other resources will be provided online.

2.1 What is Intelligence?

Intelligence

As David Myers points out, intelligence is a slippery concept. We all have an idea of what it refers to, but we cannot agree on a single definition. Perhaps the most helpful advice is to remember, as Myers points out, that “intelligence is a socially constructed concept. Cultures deem ‘intelligent’ whatever attributes enable success in those cultures” (2010). Historically, in North American culture, the idea of intelligence performance on an IQ test. The composition of these tests reflected North American culture’s emphasis on particular mental abilities, specifically, those associated with success in an academic setting. More recently, we have come to realize that there are many kinds of intelligence. In this unit we will consider some varieties of intelligence, or multiple intelligences.

Types of Intelligence

Emotional Intelligence

I have to admit that when I first heard of emotional intelligence (EI) I was skeptical. It sounded like popular psychology - someone trying to make a buck preying on our need for self-knowledge. However, upon further investigation I found that EI was linked to social intelligence (the ability to understand and relate to people), a concept developed by the pioneering psychologist E.L. Thorndike in 1920. And upon still further investigation, I found EI made a lot of sense.

Sternberg's Three Components of Intelligence

Robert Sternberg wanted to show that intelligence was more than just one general ability (known as *g theory*). He believed our intelligence is best classified into three areas that predict real - world success: ***analytical, creative, and practical***. The following article does a great job explaining the Triarchic Theory

of Intelligence and its three sub-theories. It also makes note of the criticisms that have been brought against this theory. *To better understand Sternberg's Three Components of Intelligence follow the link below:*

- **Three Components of Intelligence**

Gardner's Eight Types of Intelligence

Howard Gardner put together a robust, research-based theory of Multiple Intelligences. He put forth an understanding of intelligence promoting our abilities are best classified into nine independent intelligences, which include a broad range of skills beyond traditional school smarts. This illuminating read that can help you understand what your primary intelligences are. Follow the link below:

- **Eight Types of Intelligence**

Resources: Online Articles of Interest

To add to your exploration of this topic, take a moment to read the following articles:

- **Emotional Intelligence Consortium Website**
- **EQI Web Resource**

Activity: Intelligence Testing

In this unit we investigated Intelligence Testing. One of the important concepts we learned was that Intelligence Testing can be controversial due to its socially constructed nature.

Below is a link to a website that will allow you to take some Intelligence Tests for yourself. As you work through each test, and see the results, think about why we might consider these types of tests beneficial, and why they might be considered controversial.

- **Emotional Intelligence Test**

Learning Lab Preparation

Our Learning Lab for this unit will focus on Intelligence Testing. As we have seen, Intelligence Testing is best implemented after careful consideration - this will be the focus of our discussion during this unit's Learning Lab. To help you prepare, consider the following questions:

- *How do you feel about the EMOTIONAL INTELLIGENCE TESTS? Did you learn anything? If so, what were the important areas that were illuminated by the test?*
- *Is 'emotional intelligence' a valid concept worth measuring?*

ing?

- *Do you believe E-IQ is more important than “intelligence” as measured by IQ scores for success and happiness in your life?”*

2.2 Extremes of Intelligence

IQ Testing

In this section we continue to build upon our understanding of intelligence and testing to focus on Intelligence tests and those who score at the “extremes.” Intelligence tests are the most common tool used to measure intelligence. Intelligence test are one method of assessing an individual’s mental aptitudes and comparing them with those of others using numerical scores. These scores are then plotted on a normal (bell) curve to estimate where a person’s intelligence rates in relation to a standardized population. The extremes of intelligence is the understanding that on one end of the continuum are those with intellectual disabilities and on the other end are those who are geniuses.

Resources

To supplement our understanding of this topic, take a moment to explore the following resources:

- **The Arc**
- **MENSA International**

Activity: IQ Testing

After considering the above, and having read the textbook’s discussion of intelligence testing, you might want to try some tests yourself. The value in doing this is not that you will get an accurate idea of your IQ score, but rather that you might get a better understanding for some of the problems in testing. As you try some of the tests at the following sites, remind yourself of the problems of test standardization, validity, and reliability. How well do you think these tests measure up?

- **Queendom IQ Test**

- **davideck.com**

Learning Lab Preparation

As we prepare for our Learning Lab this week, we consider intelligence

from a Christian perspective. Read the following passage and carefully consider the questions below to help prepare for our discussion:

The Bible says, in James; Chapter 2:

My brothers, as believers in our glorious Lord Jesus Christ, don't show favoritism. Suppose a man comes into your meeting wearing a gold ring and fine clothes, and a poor man in shabby clothes also comes in. If you show special attention to the man wearing fine clothes and say, "Here's a good seat for you," but say to the poor man, "You stand there" or "Sit on the floor by my feet," have you not discriminated among yourselves and become judges with evil thoughts?

- *Could we be guilty of favoritism in esteeming more intelligent people above less intelligent people? In society? In Church?*

2.3 Nature-Nature and IQ

While the debate rages over the relative contributions of nature and nurture to IQ, no one denies that heredity (nature) plays some role. The question arises then, “So what?” Are we going to try to control (and presumably increase) IQ through genetic engineering or some other method of eugenics (*Eugenics is the search for hereditary factors that give people an evolutionary advantage; translated it can mean “good genes” or “good origin”*)? Are we going to control who should have children and how many, allowing the most intelligent parents to have more children and restricting the less intelligent? When the genetic basis for IQ (or some other component of intelligence) is identified, will parents select embryos with greater potential? For more on this topic see the following quote and the website from which it came.

“If we are concerned for the future of the (hopefully) millions of generations still to be born, we must realize that their fate lies to a considerable extent in the breeding practices of those who are currently alive.” (*Intelligence and Eugenics*)

2.4 What Will You Do?

If or when you have children, will you ban screens (TV, smart phone, tablet, laptop) as a “brain rotter” and read to them every day? Or will you just let nature take its course and allow both screens and reading?

2.5 Test Biases?

IQ tests are generally valid for their original purpose—as predictors of academic performance. Controversy arises when IQ scores are taken to mean overall intelligence and even overall worth. IQ scores consistently predict that some

cultural and racial groups will do better at school than will other groups. These differences are an indication of bias not in the IQ tests but in the backgrounds and academic settings that first create and then magnify differences.

Resources

To supplement our understanding of this topic, take a moment to read through the following:

- **The Adoption History Project**
- **Nature-Nature and IQ**

Activity: Ch. 9 Key Terms Quiz

In order to review some of the major terms from Chapter 9 in your textbook, take the following unmarked quiz. Although you will not be evaluated on these terms, they will assist you in the assessments for this course:

Learning Lab Preparation

Consider the following scenario (and questions) as you continue to prepare for this unit's Learning Lab. You will be asked to share your thoughts so come prepared

*If you suggest that Asians have darker skin than Caucasians, you are not considered racist; this is an obvious fact with a genetic basis. However, if you suggest that Asians are more intelligent than Caucasians (as IQ tests show), or that African Americans are less intelligent, watch out

- *What is different about these two claims that makes us accept one and not the other? Is it the role of nature versus nurture? Or is it more closely tied to the high value our culture places on intelligence, and especially IQ scores?*
- *If IQ were unimportant would it matter if one racial or gender group tended to score higher than another group? Would you be considered racist or sexist for suggesting this?*

Assessment

While there is no “formal” assignment that you will be responsible for submitting for Unit 2, you will be expected to participate in discussion during your Learning Lab. Your facilitator will be providing a participation mark based on your contributions. Below is some information to consider prior to attending your Learning Lab:

Active participation in group exercises, reflection, and critical discourse is an essential component of this course. You are expected to show respect for all members of the course, both in your speech and actions. Contribute by actively observing and listening, raising thoughtful questions, examining relevant issues, building on others’ ideas, analyzing and evaluating the group’s thinking, synthesizing key points, and expanding the group’s perspectives. Take care not to dominate a conversation, giving space for others to speak. When in small groups help maintain the focus, flow, and quality of conversations, and take the initiative to invite others (particularly those who are quiet) to speak.

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Checking your Learning

Before you move on to the next unit, check that you are able to:

- Define the key terminology associated with understanding intelligence, intelligence testing, and heredity, environment, and intelligence.
- Understand the reasoning behind the eugenics movements and its use of intelligence tests, why intelligence is divided into fluid and crystallized types, and the genetic basis of intelligence.
- Apply the concepts of entity theory and incremental theory to help kids succeed in school, to identify examples from the triarchic and multiple theories of intelligence, and to recognize environmental and behavioral effects on intelligence to understand how to enhance your own cognitive abilities.
- Analyze why it is difficult to remove all cultural bias from intelligence testing and whether teachers should spend time tailoring lessons to each individual student's learning style.

Chapter 3

The Developing Person - Part 1

Overview

Now that we have covered over some broad and influential topics in psychology, we begin our focus on human development. The focus of the content for this unit, will be on Chapter 10 in your textbook. As you turn ahead, you will notice that Chapter 10 contains a large amount of information - because of this, we will be covering it in this unit, and the next (Unit 4).

In this Unit (Part 1), you will learn about various strategies for researching human development, normal and abnormal prenatal development, and various cognitive, physical, and social developmental factors for infancy, childhood, and adolescence.

Topics

This unit is divided into the following topics:

1. Prenatal Development
2. Infancy and Childhood
3. Adolescence

Learning Outcomes

By the end of this unit, student's will be able to:

- Define the key terminology related to prenatal and infant physical development, infancy and childhood, and adolescent development.
- Understand advantages and disadvantages to different research designs in developmental psychology.
- Understand the cognitive changes that occur during infancy and childhood, and the importance of attachment and the different styles of attachment.
- Understand the process of identity formation, relationships, and moral emotions during adolescence.
- Apply your understanding to identify the best ways expectant parents can ensure the health of their developing fetus, how to promote learning, and how to categorize moral reasoning.
- Analyze the effects of preterm birth, how to effectively discipline children, and adolescent judgment and risk taking.

Activity Checklist

Here is a checklist of learning activities you will benefit from in completing this unit. You may find it useful for planning your work:

Read and Reflect

- Read *Krause et al. (2021). Revel for An Introduction to Psychological Science, 3rd Canadian Edition*
- Continue our study of development - in particular, some of the major changes adolescents go through in their growth.
- Review *Unit 3 - Slides*

CLICK HERE

An Introduction to Psychological Science - Chapter 10:Lifespan Development

Learning Objectives

¹² The righteous will flourish like a palm tree, they will grow like a cedar of Lebanon;

¹³ planted in the house of the Lord, they will flourish in the courts of our God.

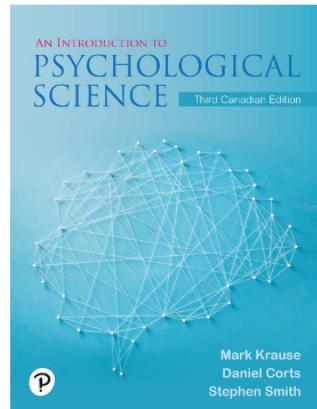
¹⁴ They will still bear fruit in old age,they will stay fresh and green,

¹⁵ proclaiming, “The Lord is upright; he is my Rock, and there is no wickedness in him.”

//todo #11 - Video: Annie Murphy Paul: What we learn before we're born

An Introduction to Psychological Science

Third Canadian Edition



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Chapter 10

Lifespan Development

*Slide showing - Introduction
Modules*

- Physical Development from Conception through Infancy
- Infancy and Childhood: Cognitive and Emotional Development
- Adolescence
- Adulthood and Aging

Learning Objectives

- Know the key terminology related to prenatal and infant physical development.
- Understand pros and cons to different research designs in developmental psychology.
- Apply your understanding to identify the best ways expectant parents can ensure the health of their developing fetus.
- Analyze the effects of preterm birth.

Developmental Psychology

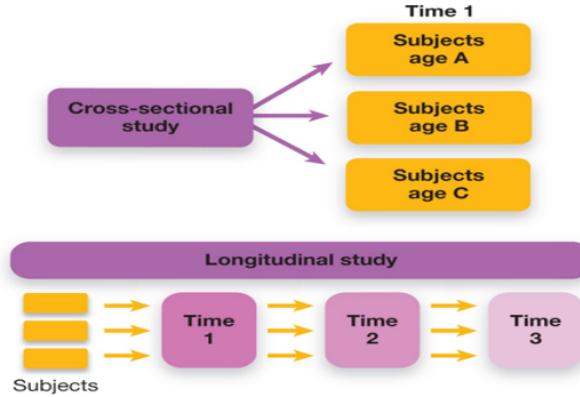
- Developmental psychology (p. 362)

- Early development influences later behaviours

Methods for Measuring Developmental Trends

Figure 10.1 Cross-Sectional and Longitudinal Methods

In cross-sectional studies, different groups of people—typically of different ages—are compared at a single point in time. In longitudinal studies, the same group of subjects is tracked over multiple points in time.



Slide showing - Cross-Sectional and Longitudinal Methods

Patterns of Development: Stages and Continuity

- Stages
 - Abrupt transitions
- Continuous
 - Slow changes

Zygotes to Infants: From One Cell to Billions

Table 10.1 Phases of Prenatal Development

A summary of the stages of human prenatal development and some of the major events at each.

Germinial: 0 to 2 weeks

Major Events

Migration of the blastocyst from the fallopian tubes and its implantation in the uterus. Cellular divisions take place that eventually lead to multiple organ, nervous system, and skin tissues.

Embryonic: 2 to 8 weeks

Major Events

Stage in which basic cell layers become differentiated. Major structures such as the head, heart, limbs, hands, and feet emerge. The embryo attaches to the placenta, the structure that allows for the exchange of oxygen and nutrients and the removal of wastes.

Fetal stage: 8 weeks to birth

Major Events

Brain development progresses as distinct regions take form. The circulatory, respiratory, digestive, and other bodily systems develop. Sex organs appear at around the third month of gestation.

Top: Doug Steley A/Alamy Stock Photo; centre: MedicalRF.com/Alamy Stock Photo; bottom: Claude Edelmann/Photo Researchers, Inc./Science Source

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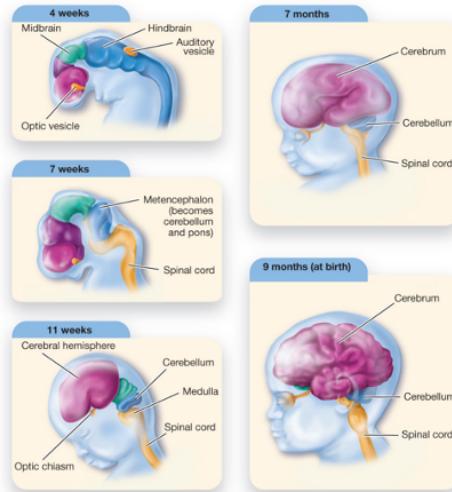
10 - 9

Slide showing - Phases of Prenatal Development

Fetal Brain Development

Figure 10.2 Fetal Brain Development

The origins of the major regions of the brain are already detectable at four weeks' gestation. Their differentiation progresses rapidly, with the major forebrain, midbrain, and hindbrain regions becoming increasingly specialized.



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Slide showing - Fetal Brain Development

Nutrition, Teratogens, and Fetal Development

- Teratogen (p. 366)

- Alcohol
- Cigarettes
- Fetal Alcohol Syndrome (p. 366)
 - 1.5 in 1000 worldwide
 - * Likely higher
- Stress

Working the Scientific Literacy Model: The Long-Term Effects of Premature Birth

- What do we know about premature birth?
 - Preterm infants (p. 368)
 - 25 weeks: 50% survival
 - 30 weeks: 95% survival
- How can science be used to help preterm infants?
 - NIDCAP
- Can we critically evaluate this research?
 - Small sample size
 - Why does the program work?
- Why is this relevant?
 - 9% of infants are born preterm
 - Simple interventions available:
 - * Massage
 - * Kangaroo care

Myths in Mind: Vaccinations and Autism

- 1990 claim that MMR vaccine linked to autism
 - One dose given at year 1
 - Second doses before starting school
 - Many parents refused
- Lack of scientific support
 - Article retracted 2010

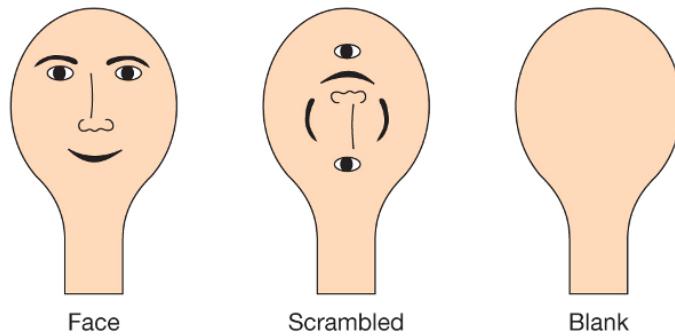
Sensory Development in Infancy

- Sensory before birth
 - 4 months gestation, brain receiving signals from eyes and ears
 - 7-8 months gestation, fetus actively listening
- Vision at birth
 - 30 cm or less
 - 20/20 by 12 months
- Smell at birth
 - Cringe at foul odours
 - Discriminate mother's breastmilk

Visual Development in Infancy (1 of 2)

Figure 10.3 Experimental Stimuli for Studying Visual Habituation in Infants

Infants were shown three types of stimuli: a face-like stimulus, a scrambled face stimulus, and a neutral stimulus.



Visual Development in Infancy (2 of 2)

Figure 10.4 The Visual Cliff

Developmental psychologists use a visual cliff (not a real one!) to test for the development of depth perception in babies. The baby shown here has not yet acquired the perceptual experience of depth.



Mark Richard/PhotoEdit, Inc.

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Slide showing - The Visual Cliff

Motor Development in the First Year (1 of 3)

Table 10.2 A Few Key Infant Reflexes

The Rooting Reflex

The *rooting reflex* is elicited by stimulation to the corners of the mouth, which causes infants to orient themselves toward the stimulation and make sucking motions. The rooting reflex helps the infant begin feeding immediately after birth.

The Moro Reflex

The *Moro reflex*, also known as the "startle" reflex, occurs when infants lose support of their head. Infants grimace and reach their arms outward and then inward in a hugging motion. This may be a protective reflex that allows the infant to hold on to the mother when support is suddenly lost.

The Grasping Reflex

The *grasping reflex* is elicited by stimulating the infant's palm. The infant's grasp is remarkably strong and facilitates safely holding onto their caregiver.

The Stepping Reflex

The *stepping reflex*, also known as the walking or dancing reflex, occurs when infants sense the onset of pressure on the sole of a foot. In fact, if you support the infant upright and gently lower the foot to a tabletop or surface, you will see the leg straighten. This reflex is the basis for learning to walk.

Slide showing - A Few Key Infant Reflexes

Motor Development in the First Year (2 of 3)

Figure 10.5 Motor Skills Develop in Stages

This series shows infants in different stages of development: (a) raising the head, (b) rolling over, (c) propping up, (d) sitting up, (e) crawling, and (f) walking.

Top, left: benda0/Shutterstock; top, right: Bubbles Photolibrary/Alamy Stock Photo; bottom, left: imageBROKER/Glow Images; bottom, centre left: OLJ Studio/Shutterstock; bottom, centre right: Corbis Bridge/Alamy Stock Photo; bottom, right: Eric Gevaert/Shutterstock



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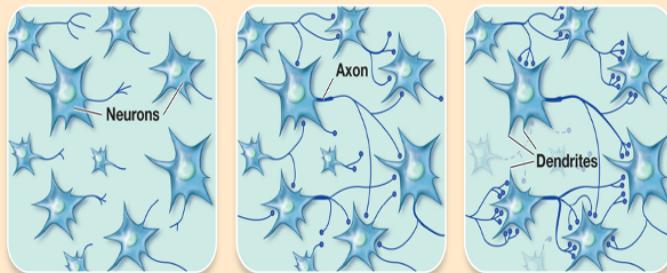
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Slide showing - Motor Skills Develop in Stages

Motor Development in the First Year (3 of 3)

Figure 10.6 The Processes of Synaptic Pruning



1. At birth, the infant's brain has a complete set of neurons but with relatively sparse synaptic connections.

2. During the first year, the axons grow longer, the dendrites increase in number, and a surplus of new connections is formed.

3. Over the next few years, active connections are strengthened, while unused connections are eliminated.

Slide showing - The Processes of Synaptic Pruning

Learning Objectives

- Know the key terminology associated with infancy and childhood.

- Understand the cognitive changes that occur during infancy and childhood.
- Understand the importance of attachment and the different styles of attachment.
- Apply the concept of scaffolding and the zone of proximal development to understand how to best promote learning.
- Analyze how to effectively discipline children in order to promote moral behaviour.

The Importance of Sensitive Periods

- Sensitive period (p. 375)
 - Language fluency
 - Perception
 - Balance
 - Recognition of parents
 - Identifying with a particular culture

Cognitive Changes: Piaget's Cognitive Development Theory

Table 10.3 Piaget's Stages of Cognitive Development

Stage	Description
Sensorimotor (0–2 years)	Cognitive experience is based on direct sensory experience with the world, as well as motor movements that allow infants to interact with the world. Object permanence is the significant developmental milestone of this stage.
Preoperational (2–7 years)	Thinking moves beyond the immediate appearance of objects. The child understands physical conservation and that symbols, language, and drawings can be used to represent ideas.
Concrete operational (7–11 years)	The ability to perform mental transformations on objects that are physically present emerges. Thinking becomes logical and organized.
Formal operational (11 years–adulthood)	The capacity for abstract and hypothetical thinking develops. Scientific reasoning becomes possible.

Slide showing - Piaget's Stages of Cognitive Development
The Sensorimotor Stage: Objects and the Physical World

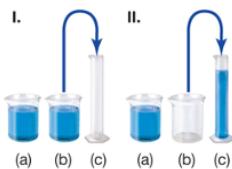
- Sensorimotor stage (p. 375)
 - Birth to 2 years
 - Object permanence (p. 376)
 - * Hidden toy test

The Preoperational Stage: Quantity and Numbers (1 of 2)

Figure 10.7 Testing Conservation

A child views two equal amounts of fluid, one of which is then poured into a taller, narrower container. Children who do not yet understand conservation believe that there is more fluid in the tall container compared to the shorter one. A similar version of this task can be tested using equal arrays of separate objects. When the two rows of coins are the same length, the child agrees that they have the same number. But when one row is spread out, it becomes bigger, and so the preoperational child will identify that row as having more.

Source: Lilienfeld, S. O., Lynn, S. J., Namy, L. L., & Woolf, N. J. (2011). *Psychology: From Inquiry to Understanding*, 2nd ed., ©2011. Reprinted and electronically reproduced by permission of Pearson Education, Inc., New York, NY.



Row A 
 Row B 

Which has more, row A or row B, or do they both have the same?

Row A 
 Row B 

Now which has more, row A or row B, or do they both have the same?

The Preoperational Stage: Quantity and Numbers (2 of 2)

Figure 10.8 Scale Errors and Testing for Scale Model Comprehension

The children in photos (a) and (b) are making scale errors. One child is attempting to slide down a toy slide and another is attempting to enter a toy car. Three-year-olds understand that a scale model represents an actual room (c). The adult pictured is using a scale model to indicate the location of a hidden object in an actual room of this type. At around three years of age, children understand that the scale model symbolizes an actual room and will go directly to the hidden object after viewing the scale model.



Courtesy of Judy DeLoache

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Slide showing - Scale Errors and Testing for Scale Model Comprehension

The Concrete Operational Stage: Using Logical Thought

- Concrete operational stage (p. 377)
 - 7 to 11 years

– Transitivity

The Formal Operational Stage: Abstract and Hypothetical Thought

- Formal operational stage (p. 378)
 - 11 years to adulthood
 - Scientific thinking

Working the Scientific Literacy Model: Evaluating Piaget

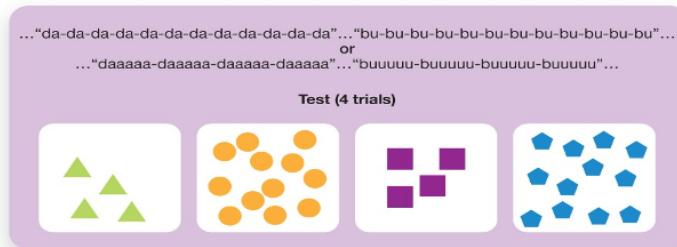
- What do we know about cognitive abilities in infants?
 - Core knowledge hypothesis (p. 378)
 - Habituation (p. 378)
 - Dishabituation (p. 378)

Working the Scientific Literacy Model: Evaluating Piaget (2 of 3)

How can science help explain infant cognitive abilities?

Figure 10.9 Testing Infants' Understanding of Quantity

In this study, infants listened to tones that were repeated either 4 or 12 times while they looked at objects that had either 4 or 12 components. Infants spent more time looking at visual arrays when the number of items they saw matched the number of tones they heard.



Slide showing - Testing Infants' Understanding of Quantity
Complementary Approaches to Piaget

- Vygotsky
 - Zone of proximal development (p. 380)
 - * Scaffolding (p. 380)
 - Cultural differences

Social Development and Attachment

- Attachment (p. 381)
- Harry Harlow's monkey experiments
- Strange situation test (p.382)

Social Development and Attachment (2 of 2)

Figure 10.11 The Strange Situation

Studies of attachment by Mary Ainsworth involved a mother leaving her infant with a stranger. Ainsworth believed that the infants' attachment styles could be categorized according to their behavioural responses to the mother leaving and returning.



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Slide showing - The Strange Situation
Social Development and Attachment

- Types of Attachment
 - Secure attachment
 - * Insecure attachment
 - * Disorganized
 - * Anxious/Ambivalent
 - * Avoidant
- Parenting and Attachment
- Attachment behavioural system (p. 383)
- Caregiving behavioural system (p. 383)
- Conditional approaches
- Introjection (p. 383)
 - Inductive discipline (p. 383)

Self-Awareness

- Self-awareness (p. 384)
 - Reflection in mirror
- Egocentric (p. 384)

Self-Awareness (2 of 3)

Figure 10.12 Piaget's Test for Egocentric Perspective in Children

Piaget used the three-mountain task to test whether children can take someone else's perspective. The child would view the object from one perspective while another person viewed it from a different point of view. According to Piaget, children are no longer exclusively egocentric if they understand that the other person sees the object differently.



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Slide showing - Piaget's Test for Egocentric Perspective in Children

- Theory of mind (p. 384)
- False-belief task
- Psychosocial Development Across the Lifespan
 - Infancy
 - Sense of security
 - Toddlerhood
 - Exploring autonomy
 - Early Childhood
 - Pushing boundaries and experimenting
 - Childhood
 - Active engagement

Learning Objectives

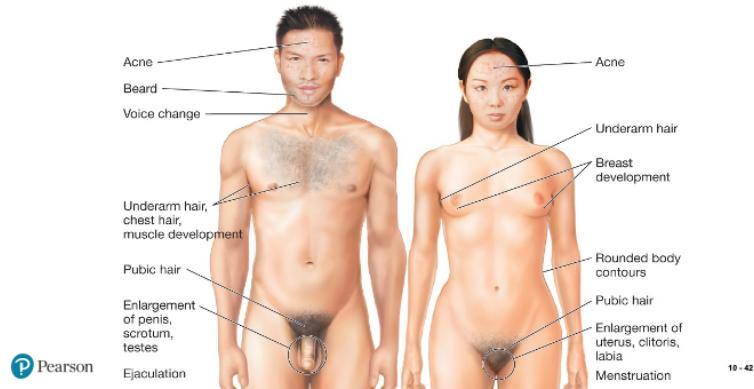
- Know the key terminology concerning adolescent development.
- Understand the process of identity formation during adolescence.

- Understand the importance of relationships in adolescence.
- Understand the functions of moral emotions.
- Apply your understanding of the categories of moral reasoning.
- Analyze the relationship between brain development and adolescent judgment and risk taking.

Physical Changes in Adolescence

Figure 10.14 Physical Changes That Accompany Puberty in Male and Female Adolescents

Hormonal changes accelerate the development of physical traits in males and females. Changes involve maturation of the reproductive system (primary sex traits) as well as secondary sex traits such as enlargement of breasts in women and increased muscle mass in males.



Slide showing - Physical Changes That Accompany Puberty in Male and Female Adolescents

Emotional Challenges in Adolescence

- Intense and volatile emotions

- Cognitive reframing

- Ability to delay gratification (p. 392)

Working the Scientific Literacy Model: Adolescent Risk and Decision Making

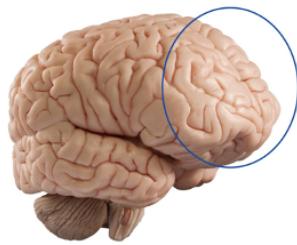
- What do we know about adolescence and decision making?
 - Ongoing changes in prefrontal cortex
 - * Region involved in impulse control, mood, planning, organizing, and reasoning

Working the Scientific Literacy Model: Adolescent Risk and Decision Making (2 of 4)

How can science test the link between brain function and decision making in adolescents?

Figure 10.15 Extended Brain Development

The prefrontal cortex (circled in blue) continues to develop through adolescence and into young adulthood.



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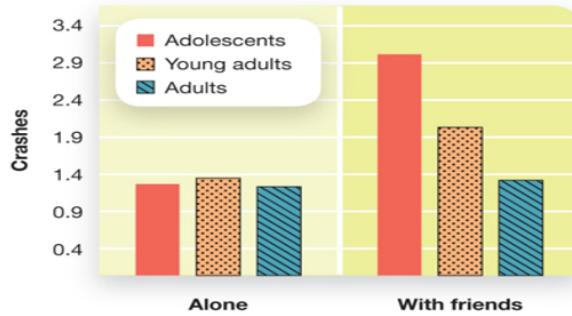
Slide showing - Extended Brain Development

- Can we critically evaluate this explanation for risky decision making?
 - Still capable of making good decisions
 - Temperament and personality
 - Situational factors
- Why is this relevant?
 - Major public health problem

Working the Scientific Literacy Model: Adolescent Risk and Decision Making (4 of 4)

Figure 10.16 What Drives Teenagers to Take Risks?

One key factor in risk taking is simply *other teenagers*. When teens play a driving video game with other teens, they crash more than when playing the same game alone, and more than adults playing the game (from Steinberg, 2007).



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Slide showing - What Drives Teenagers to Take Risks?

Cognitive Development: Moral Reasoning vs. Emotions

- Formal operational stage
 - Abstract thinking
 - Scientific thinking
 - Perspective taking

Kohlberg's Moral Development: Learning Right from Wrong

- A trolley is hurtling down the tracks toward a group of five unsuspecting people. You are standing next to a lever that, if pulled, would direct the trolley onto another track, thereby saving the five individuals. However, on the second track stands a single, unsuspecting person, who would be struck by the diverted trolley.

Kohlberg's Moral Development: Learning Right from Wrong (2 of 2)

Table 10.5 Kohlberg's Stages of Moral Reasoning

Stage of Moral Development	Description	Application to Trolley Dilemma
Preconventional morality	<i>Characterized by self-interest in seeking reward or avoiding punishment.</i> Preconventional morality is considered a very basic and egocentric form of moral reasoning.	"I would not flip the trolley track switch because I would get in trouble."
Conventional morality	<i>Regards social conventions and rules as guides for appropriate moral behaviour.</i> Directives from parents, teachers, and the law are used as guidelines for moral behaviour.	"I would not flip the switch. It is illegal to kill, and if I wilfully intervened I would probably violate the law."
Postconventional morality	<i>Considers rules and laws as relative.</i> Right and wrong are determined by more abstract principles of justice and rights.	"I would flip the switch. The value of five lives exceeds that of one, so saving them is the right thing to do even if it means I am killing one person who would otherwise not have died."



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Slide showing - Kohlberg's Stages of Moral Reasoning

Moral Development

- Social intuitionist model
 - Julie and Steven are brother and sister. They are travelling together in France on summer vacation from college. One night they are staying alone in a cabin near the beach. They decide that it would be interesting and fun if they shared a romantic kiss. At the very least it would be a new experience for each of them. They both enjoy the experience, but they decide not to do it again. They keep that night as a special secret, which makes them feel even closer to each other.

Social Development: Identity and Relationships

- Identity (p. 395)
 - Personal qualities
 - Social qualities
 - Future goals
- Adolescence identity crisis
 - Curiosity, questioning, and exploration
- Peer groups

- Romantic relationships

Learning Objectives

- Know the key terminology concerning adulthood and aging.
- Know the key areas of growth experiences by emerging adults.
- Understand age-related disorders such as Alzheimer's disease.
- Understand how cognitive abilities change with age.
- Apply your attitudes about marriage.

- Analyze the stereotype that old age is a time of unhappiness.

Physical Changes in Adulthood

- Age brackets:
 - Young adulthood: 18-40 years
 - Middle adulthood: 40-65 years
 - Older adulthood: 65 years and onward

- Menopause (p. 399)

Psychosocial Development Across the Lifespan

- Ages 25 to 40
 - Separate from parents
 - Work on intimate relationships
 - Failure can result in isolation
- Ages 45 to 65
 - Producing something of value
 - Work and/or family
 - Ages 65+
 - Reflect on life of fulfillment (or not)

Love and Marriage

- Most adults pursue some kind of long-term relationship
- Marriage associated with longer life, happiness
- Gottman
 - Conflict and communication
 - “Four horsemen of the Apocalypse”

Parenting

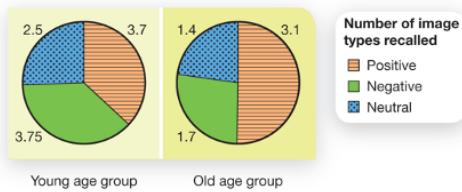
- Shift in identity, lifestyle
- Children affect marriage
- Empty nest myth

Late Adulthood: Happiness and Relationships (1 of 2)

Socioemotional selectivity theory (p. 402)

Figure 10.18 Emotion, Memory, and Aging

Younger people have superior memory for whether they have seen positive, negative, or neutral pictures compared with older people. However, notice that younger people remember positive and negative pictures equally, whereas older people are more likely to remember positive pictures (Charles et al., 2003).



Source: Data from Carstensen, L. L., & Mikels, J. A. (2005). At the intersection of emotion and cognition: Aging and the positivity effect. *Current Directions in Psychological Science*, 14(3) 117–121.

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Slide showing - Emotion, Memory, and Aging

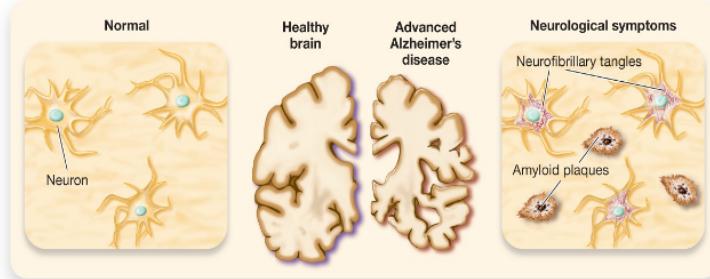
PSYCH @ The Driver's Seat

- Driving skills and age
- UFOV Speed of Processing training
 - Computer-based
 - Decreases accident risk

Physical Changes

Figure 10.19 How Alzheimer's Disease Affects the Brain

Advanced Alzheimer's disease is marked by significant loss of both grey and white matter throughout the brain. The brain of a person with Alzheimer's disease typically has a large buildup of a protein called beta-amyloid, which kills nerve cells. Also, tau proteins, which maintain the structure of nerve cells, are often found to be defective in the Alzheimer's brain, resulting in neurofibrillary tangles.



Retrieved from www.nia.nih.gov/sites/default/files/alzheimers_disease_unraveling_the_mystery_2.pdf

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Slide showing - How Alzheimer's Disease Affects the Brain

Working the Scientific Literacy Model: Aging and Cognitive Change

- What do we know about cognitive abilities?
 - Fluid intelligence declines
 - Crystallized intelligence remains largely intact
- How can science explain age-related differences in cognitive abilities?
 - Activation of brain areas

Working the Scientific Literacy Model: Aging and Cognitive Change

- Can we critically evaluate our assumptions about age-related cognitive changes?
 - Too simplistic to say memory declines
 - * Many different types of memory
 - Compensation
- Why is this relevant?
 - Control over how one ages

Working the Scientific Literacy Model: Aging and Cognitive Change (3 of 3)

Figure 10.20 Memory and Aging

Several types of memory systems exist, not all of which are equally affected by age. An older person's ability to remember events, such as words that appeared on a list (episodic memory), is more likely to decline than his or her memory for facts and concepts (semantic memory).



Slide showing - Memory and Aging

Note: The slides are intended to supplement the information found in your textbook. If you are having trouble viewing them, they can also be downloaded by scrolling to the bottom of the screen and clicking on the “Unit 3 - Slides” link.

Designer Babies

- Explore and reflect upon this contemporary and controversial issue. Designer babies pose many ethical issues and requires careful consideration.

Cognitive Change

- Reflect on your own development before taking a “test” to develop additional insights into your own developmental trajectory.

Terminology Practice

- Take this flip-card activity to self-evaluate how well you know some of the important terms from Chapter 10.

Learning Lab Preparation

- Each topic will provide a question or scenario for you to consider prior to attending your Learning Lab. Be sure to carefully consider each prompt as you will be expected to contribute to the group discussion.

Resources

Here are some additional resources that will help you complete this unit:

- Krause, M., Corts, D., Smith, S. C., & Dolderman, D. (2018). *Revel for An Introduction to Psychological Science, 2nd Canadian Edition*. Pearson Ed.
- Other resources will be provided online.

3.1 Prenatal Development

Physical Development

Prenatal development is a time of rapid growth and change. This rapid change continues throughout the first few years of life. Development during early life is clearly a function both of nature and of the environment.

Questions to Consider

After you have read the first few pages of this chapter you should be able to answer the following questions:

- *How is the gender of an offspring determined?*
- *What differentiates zygotes from embryos and embryos from fetuses?*

(These questions are intended for personal reflection - you are not intended to submit anything for assessment)

Designer Babies

It is beginning to look inevitable that, however fierce the debate, the technology to make designer babies will happen - maybe just 20 years from now. Geneticists claim to have found the gene for good-parenting, genes for obesity, Alzheimer's, red hair, and even happiness. Incredibly, scientists have even constructed an artificial human chromosome, which could carry any genes a geneticist - or prospective parents - desired.

Embryo A technique called Pre-implantation Genetic Diagnosis (PGD) is already being used to screen embryos for genetic diseases. Embryos created outside the body using in vitro fertilization are tested to see whether they carry a genetic disorder before being transferred to the uterus. It's deeply controversial whether parents should ever be allowed to select embryos just because they're genetically different.

At the moment the technique is used for therapeutic purposes only, to screen for children who may have a deadly genetic disease. Even if some parents and their doctors were willing to use PGD for cosmetic or enhancement purposes, which remains absolutely taboo, the technique is limited in a crucial way - PGD can only select an embryo with genes inherited from the parents.

Bottled Genes? One day parents may be able to pick any gene they desire from a range of bottled genes and have it put into their embryos. (quoted from “Designer Babies” website)

Activity: Designer Babies

This activity involves some reading and reflection around the topic of genetic engineering. As this is a contemporary issue, it will be valuable to familiarize yourself with some of the complexities of this technology and think critically about some of the ethical challenges. Your task is to read the following resources and carefully consider the implications of this technology:

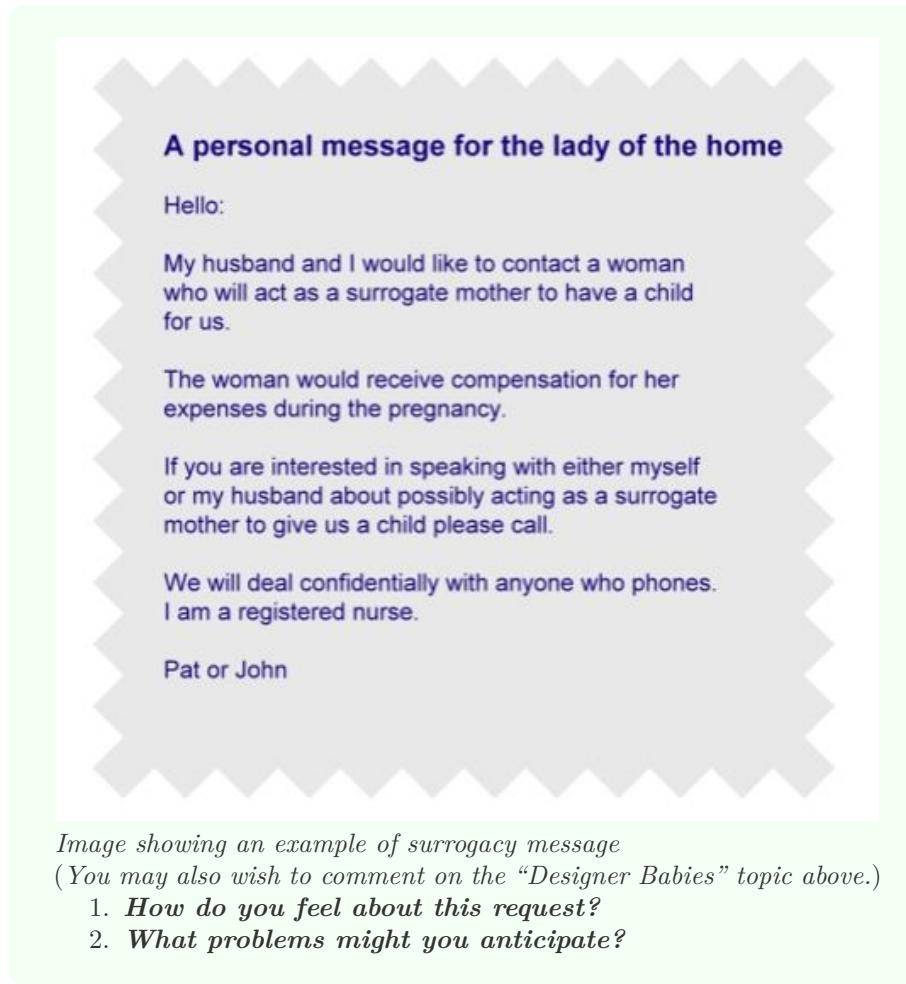
- **Editing the DNA of Embryos with CRISPR**

- **Designer Babies, CRISPR, & Genetic Engineering**

Learning Lab Preparation

Prior to your Learning Lab, take some time to think about the following scenario and questions. You will be asked to share your thoughts in this week’s Learning Lab:

Modern techniques of conception and human genetic engineering raise important new issues for human development. A pamphlet containing the following message was left at doorsteps in TWU professor Philipchalk’s neighborhood:



3.2 Infancy and Childhood

A Child’s View of God

One evening on a camping trip several years ago, my wife and I listened outside the tent as our five-year-old Joelle and three-year-old Matthew tried to get to sleep. Always the “mother,” Joelle attempted to dispel her little brother’s fear of bears and other wild creatures by reminding him that Jesus was watching over them. Not content with generalities, Matt responded, “Does Jesus got a gun?” (*Psychology and Christianity by Ronald Philipchalk, p. 141*)

As any Sunday School teacher knows, children see God differently from adults—often in very concrete terms (protection requires a gun!). Studying cognitive development can help us to understand as well as teach children at their own

level.

The Process of Cognitive Change

Our textbook provides a good summary of the structure (stages) of cognitive development. The section, however, does not address the process by which a person moves from one stage to the next. Piaget believed that the key to cognitive development is something called cognitive conflict or cognitive disequilibrium. For cognitive development to proceed, the individual must constantly re-evaluate his or her schemas. According to Piaget, we develop schemas from an early age of life. Schemas are our cognitive representations of the world. Schemas help us to organize our experiences. They also allow us to make predictions about what outcomes might result from particular behaviours. Schemas are very important in helping us to understand and to adapt to the world.

Although schemas are important in helping us to understand the world, they are not always accurate. People at all ages can have mental representations of the world that are not correct.

Can you think of any examples of inaccurate schemas?

Although people at all ages can have inaccurate mental representations of the world, children are especially prone to view the world in an incorrect way. The reason children may view the world in an incorrect way is because the structure of their cognitive processing is developing. Piaget believed that inaccurate schemas are changed only when they are challenged in the cognitive structure of the child. This challenge has been termed cognitive conflict.

Basically, the process of cognitive change works as follows:

- People are motivated to maintain a state of cognitive equilibrium.
- When a child encounters information from the world and the information is inconsistent with his or her schema, the new piece of information creates a state of disequilibrium or cognitive conflict.
- **Equilibrium** may be restored through one of the two processes of adaptation called assimilation and accommodation.
- **Assimilation** occurs when a child re-organizes the new information in such a way as to make the new piece of information consistent with his or her preexisting schema of the world.
- **Accommodation** occurs when a child alters his or her schema such that the new piece of information can now be incorporated into the new schema.

Thus the process of accommodation produces the greatest cognitive change. Can you think of examples of both assimilation and accommodation? Here is an example:

Equilibrium-Preexisting Schema: Child has grown up in an environment where all people he interacted with were of the same race (mom, dad, siblings, grandma, grandpa, etc.) Child has seen people of other racial groups, but has never interacted with them. Child develops the schema that people tend to like others who are of the same race as him or her.

Cognitive Conflict Produced: At four years of age the child begins to attend preschool. At this time he starts to interact with children of various races. The child begins to develop a friendship with a child of a different race. This friendship creates cognitive conflict for the child: "How can I like someone who is a different color?" To resolve this cognitive conflict, the child has two options:

Option A- Assimilation: In order to maintain his or her preexisting schema, the child re-organizes the information such that the other child is not perceived to be so dissimilar after all: "Maybe he is a different color from me, but we both speak English. We must not be so dissimilar after all."

Option B- Accommodation: The child's preexisting schema is altered such that the new information can be incorporated into a new way of perceiving the world, "Maybe I can be friends with someone who is different from me."

Cognitive Equilibrium is Restored

Although cognitive equilibrium is restored via either assimilation or accommodation, assimilation serves to maintain an inaccurate schema (that differences inhibit the development of friendships) whereas accommodation serves to produce cognitive change and hence produces a more accurate representation of the world (that differences do not inhibit the development of friendships).

Activity:Cognitive Change

The first three links below are articles that are intended to give you an opportunity to reflect upon your own considerations around development. The last link is a test - along with the first three links, it is intended to provide some insights about your developmental trajectory in light of your crisis resolution, attachment style, and parenting styles:

- Erik Erikson's Stages of Social-Emotional Development
- The Link Between Substance Abuse and Attachment Disorder
- Stepfamilies: How to Help Your Child Adjust
- What is Your Parenting Style

Learning Lab Preparation

Prior to your Learning Lab, take some time to think about the following questions. You will be asked to share your thoughts in this week's Learning Lab:

- *What is God like for children of different levels of cognitive development? If you can, give some examples from children you know....*
- *Would children even have an idea of God if they were not taught it?*

3.3 Adolescence

John has just turned 13. Over the past year he has experienced many changes. He has grown over six inches and he has developed acne over his face and back. Not only is he changing physically, he is also experiencing a wave of emotional, spiritual, cognitive, and sexual changes. John has become self-focused and very self-critical. In addition, he is beginning to think abstractly and to challenge adults' "dominion" on knowledge. John is also on a quest to understand "who he is" and "what his place is in the world". John's quest for an identity makes him more vulnerable to peer pressure and to the influence of radical groups and cults. During this time that we call adolescence, John will make many decisions that will have a profound effect on the direction his life will take.

Does any of the above sound familiar?

Before you begin reading the textbook section on adolescence, think back to your own adolescence. As you think about your experience of adolescence, use the following questions to guide your reflection:

- What physical changes did you experience in adolescence?
- How did these physical changes make you feel?
- In what ways did your view of the world change during adolescence?
- How did your way of treating other people change during adolescence?
- What was most important to you during adolescence?
- To what extent is "who you are today" a function of "who you became during adolescence"?

No Adolescence?

In other times and in other cultures today, adolescence does not exist as a significant and distinct period of development. This might seem surprising and difficult to imagine. Think of how modern society would be different, or if it could even exist, without a period of adolescence. What are the advantages and disadvantages of having an adolescent period?

Identity

The concept of identity is a rich topic for consideration. The most familiar aspect of identity is occupational identity, since much of “who we are” in our society rests on the kind of work we do. Perhaps you can readily relate to this in your choice of major. Less familiar, but equally important, is ideological identity. Ideological identity, including both religious and political orientations, may undergo a tremendous upheaval during your student years. Do you have the same political beliefs as your parents? What about religious beliefs? Conflict and questioning of parental beliefs and values may be a necessary part of establishing your personal identity—even if the beliefs and values you ultimately adopt are the same as those of your parents.

Learning Activities

Read and Reflect

In this section we explore adolescence and the changes in development we go through. Below are some resources that help to help support your understanding:

- [Journal of Adolescence](#)
- [Erik Erikson's Stages of Social-Emotional Development](#)
- [4 Tips for Parenting Teenagers](#)

Terminology Practice

In order to review some of the major terms from Chapter 10 in your textbook, practice using the activity below. Although you will not be evaluated on these terms, they will assist you in the assessments for this course:

Learning Lab Preparation

Prior to your Learning Lab, take some time to think about the following questions. You will be asked to share your thoughts in this week’s Learning Lab:

- *Would you want to live your adolescence over again if you could? Why or why not?*

Assessment

While there is no “formal” assignment that you will be responsible for submitting for Unit 3, you will be expected to participate in discussion during your Learning Lab. Your facilitator will be providing a participation mark based on your contributions. Below is some information to consider prior to attending your Learning Lab:

Active participation in group exercises, reflection, and critical discourse is an essential component of this course. You are expected to show respect for all members of the course, both in your speech and actions. Contribute by actively observing and listening, raising thoughtful questions, examining relevant issues, building on others’ ideas, analyzing and evaluating the group’s thinking, synthesizing key points, and expanding the group’s perspectives. Take care not to dominate a conversation, giving space for others to speak. When in small groups help maintain the focus, flow, and quality of conversations, and take the initiative to invite others (particularly those who are quiet) to speak.

Rubric for Participation in Learning Labs

Emerging (0-64%)	Developing (65-89%)	Mastering (90-100%)
Never to almost never: Demonstrates active listening (as indicated by disengaged body language and no to rare comments that build on others’ remarks), Initiates any contributions in class or small groups, Makes insightful or constructive comments, Helps maintain a supportive space for others to speak.	Sometimes to fairly often: Demonstrates active listening (as indicated by somewhat to often engaged body language and comments that build on others’ remarks), Initiates a contribution at least once in a class or small group discussion; Makes insightful or constructive comments, Helps maintain a supportive space for others to speak.	Very often to nearly always: Demonstrates active listening (as indicated by fully engaged body language and comments that build on others’ remarks), Initiates more than one contribution in a class or small group discussion, Makes insightful or constructive comments, Creates a space for others to speak and takes initiative to include others.

Checking your Learning

Before you move on to the next unit, check that you are able to:

- Define the key terminology related to prenatal and infant physical development, infancy and childhood, and adolescent development.
- Understand advantages and disadvantages to different research designs in developmental psychology.
- Understand the cognitive changes that occur during infancy and childhood, and the importance of attachment and the different styles of attachment.
- Understand the process of identity formation, relationships, and moral emotions during adolescence.
- Apply your understanding to identify the best ways expectant parents can ensure the health of their developing fetus, how to promote learning, and how to categorize moral reasoning.
- Analyze the effects of preterm birth, how to effectively discipline children, and adolescent judgment and risk taking.

Chapter 4

The Developing Person - Part 2

Overview

Building upon Unit 3, this unit (Part 2) will focus on the cognitive, physical, and social changes faced during young (and emerging) adulthood, middle adulthood, and late adulthood. *Please note as well, that although it is not covered in the text, Topic 2 discusses the important, and inevitable, subject of dying and death.*

Topics

This unit is divided into the following topics:

1. Adulthood
2. Death and Dying

Learning Outcomes

By the end of this unit, student's will be able to:

- Define the key terminology concerning adulthood and aging.
- Describe the key areas of growth experiences by emerging adults.
- Explain age-related disorders such as Alzheimer's disease.
- Describe how cognitive abilities change with age.

- Apply effective communication principles to the challenge of improving your own relationships.
- Analyze the stereotype that old age is a time of unhappiness.

Activity Checklist

Here is a checklist of learning activities you will benefit from in completing this unit. You may find it useful for planning your work:

Read and Reflect

- Read *Krause et al. (2021). Revel for An Introduction to Psychological Science, 3rd Canadian Edition*

- Review [*Unit 4 - Slides*]

//todo #4

CLICK HERE

Chapter 10 - Lifespan Development

Psalm 92:12-15

¹² The righteous will flourish like a palm tree, they will grow like a cedar of Lebanon;

¹³ planted in the house of the Lord, they will flourish in the courts of our God.

¹⁴ They will still bear fruit in old age, they will stay fresh and green,

¹⁵ proclaiming, “The Lord is upright; he is my Rock, and there is no wickedness in him.”

//todo #3

- Video: (Annie Murphy Paul: What we learn before we're born)
[tp://www.ted.com/talks/annie_murphy_paul_what_we_learn_before_we_re_born.html..](http://www.ted.com/talks/annie_murphy_paul_what_we_learn_before_we_re_born.html..)

10.1 Learning Objectives

- Know the key terminology related to prenatal and infant physical development.
- Understand pros and cons to different research designs in developmental psychology.
- Apply your understanding to identify the best ways expectant parents can ensure the health of their developing fetus.
- Analyze the effects of preterm birth.

Developmental Psychology

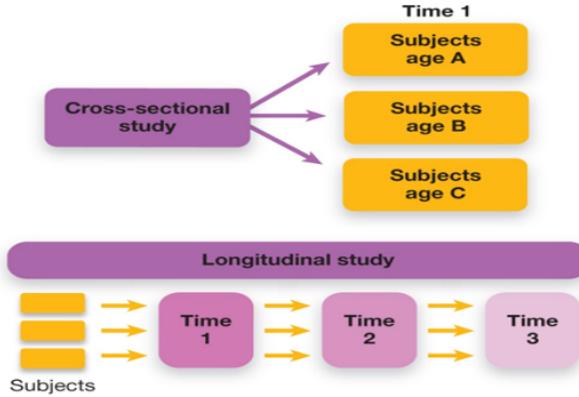
- Developmental psychology (p. 362)

- Early development influences later behaviours

Methods for Measuring Developmental Trends

Figure 10.1 Cross-Sectional and Longitudinal Methods

In cross-sectional studies, different groups of people—typically of different ages—are compared at a single point in time. In longitudinal studies, the same group of subjects is tracked over multiple points in time.



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Slide showing - Cross-Sectional and Longitudinal Methods

Developmental Psychology

Note: the slides are intended to supplement the information found in your textbook. If you are having trouble viewing them, they can also be downloaded by scrolling to the bottom of the screen and clicking on the “Unit 4 - Slides” link.*

Relationships and Aging

- Read about Erikson’s Eight Psychosocial Stages that highlight the importance of relationships in healthy aging.

Death and Dying

- Take a moment to read through some resources that are focused on aging and dying. These readings are intended to provoke thought around the inevitability of death.

Learning Lab Preparation

- Each topic will provide a question or scenario for you to consider prior to attending your Learning Lab. Be sure to carefully consider each prompt as you will be expected to contribute to the group discussion.

Assessment

- At the end of this unit, not only will you be assessed on your participation during the Learning Lab discussions, but you will also be responsible for submitting your first writing assignment.
- **Writing Assignment #1** is outlined on the “Assessment” page

- expectations for this assignment, as well as a grading rubric, can be found by clicking on that tab.
- After completing this assignment, you will also be expected to complete **Quiz #1**. Again, information about the quiz can be found by clicking on the “Assessment” tab.

Resources

Here are some additional resources that will help you complete this unit:

- Krause, M., Corts, D., Smith, S. C., & Dolderman, D. (2018). *Revel for An Introduction to Psychological Science, 2nd Canadian Edition*. Pearson Ed.
- Other resources will be provided online.

4.1 Adulthood

Psychosocial Development

There are many changes we experience during the time we call adulthood. According to Erikson’s theory of psychosocial development, adults move through three important stages during which they must resolve important psychosocial conflicts:

- Early Adulthood
- Middle Adulthood
- Late Adulthood

In Early Adulthood (20-40 years of age) the psychosocial crisis is one of intimacy versus isolation. Although it is often perceived as critical whether or not the person develops an intimate relationship with a lifelong partner, Erikson believed that although this is one component of intimacy in this stage, other types of intimacy are also important—like developing intimate relationships with workmates, colleagues, and even one’s children. If one fails to develop a sense of intimacy during this stage, he or she will feel isolation.

In Middle Adulthood (40-65 years of age) the psychosocial crises is one of generativity versus stagnation. What is generativity? Erikson used the term gererativity to describe the process by which a person feels like he or she is making a lasting contribution in the world. Usually, generativity involves giving something back to the next generation. People at this stage can feel generative in many ways—coaching a softball team, being a scout leader, teaching children in Sunday School, been a big brother/sister, etc. If a person fails to develop a sense of generativity during this stage, he or she will feel a sense of stagnation.

In Late Adulthood (65+ years of age) the psychosocial crisis is one of ego integrity versus despair. If the individual looks back on his or her life and feels a sense of pride in the accomplishments he or she has made, then the individual will feel a sense of ego integrity. However, if the person looks back on his or her life and does not see the significance of his or her accomplishments, then he or she will feel a sense of despair at the meaninglessness of his or her life.

Guilt

One of the most significant developments in childhood, from both a secular and Christian point of view, is a conscience with its attendant guilt. Is guilt simply a conditioned emotional response (as the behaviorist might say)? Is it the result of conflict with the superego (as a psychoanalyst would say)? Is it the failure to live up to our self-concept (as the humanist might say)? Is it the voice of the Holy Spirit? Or is it some combination of these? (For help on this issue and an important distinction between false and true guilt see Counts and Narramore (1970), Narramore (1984), Tournier (1962).) (*from Psychology and Christianity, by Ronald Philipchalk, p. 146*)

The textbook discusses moral development in childhood and adolescence. However, many adults are troubled by questions of right and wrong, and in particular, by feelings of guilt. The Christian authors noted above suggest that many guilt feelings are not true guilt but false guilt carried over from childhood experiences. Understanding how conscience and guilt feelings develop can help to liberate us from unnecessary false guilt inappropriately attributed to God.

Activity: Read and Reflect

This activity involves some reading and reflection around Erikson's Eight Psychosocial Stages and an article from Harvard University illuminating the importance of relationships in healthy aging.

- Erik Erikson's Stages of Social-Emotional Development
- Good Genes are Nice, but Joy is Better

Learning Lab Preparation

Prior to your Learning Lab, take some time to think about the following questions. You will be asked to share your thoughts in this week's Learning Lab:

- *What do you hope to accomplish during your “adult development” years?*
 - (*If you are past these years, what are you most pleased with?*)

4.2 Death and Dying

Death

Secular psychologists see death as final. Christians, however, see resurrection beyond, with death being but another step in that direction. What implications do these beliefs have for the process of dying?

As medical technology has advanced death has become more and more difficult to define. We need to focus our attention less on preserving the physical and more on preserving the personhood of the individual. This means giving greater attention to our concept of the dying person created in the image of God (as the abortion issue has forced us to do at the other end of life). When is personhood sacrificed to technical efficiency? Should we advocate a more “natural death?” What is “natural death?” How far does one go in “allowing” natural death? (*from Psychology and Christianity, by Ronald Philipchalk, p. 146*)

Hospice

You matter because of who you are. You matter to the last moment of your life, and we will do all we can not only to help you die peacefully, but also to live until you die.” (*Dame Cicely Saunders*)

During the Crusades of the Middle Ages a hospice provided lodging for travelers: a place of refuge and comfort. So in 1967, when Dame Cicely Saunders opened a facility in London to provide care and comfort to dying people and their families, St. Christopher’s hospice was an appropriate name. (*Courtesy of the Langley Hospice Society*)

If you would like to know more about the hospice movement in this area, you can contact the Langley Hospice Society at 604-530-1115.

Cultural Variations

The following issues are often subject to cultural variations:

- Adolescence is unknown in some cultures
- Adolescent struggles and conflict are much less in some cultures (e.g.,)
- Stage theories may not apply in other cultures
- Ageism, especially with regard to intellectual abilities, is reduced, unknown, or even reversed in some cultures where the wisdom of old age is venerated
- The “social clock” may be set differently in other cultures
- Attitudes toward death vary greatly between cultures

4.3 Assessment

In addition to your participation in this unit's Learning Lab, you will also be responsible for two formal assessments. The first, is your **Writing Assignment #1** - more information can be found on this assignment by scrolling down the page. The second assessment that will take place is **Quiz #1** - more information can be found by scrolling down the page.

Active participation in group exercises, reflection, and critical discourse is an essential component of this course. You are expected to show respect for all members of the course, both in your speech and actions. Contribute by actively observing and listening, raising thoughtful questions, examining relevant issues, building on others' ideas, analyzing and evaluating the group's thinking, synthesizing key points, and expanding the group's perspectives. Take care not to dominate a conversation, giving space for others to speak. When in small groups help maintain the focus, flow, and quality of conversations, and take the initiative to invite others (particularly those who are quiet) to speak.

Rubric for Participation in Learning Labs

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Writing Assignment #1

Your first assignment for the course will involve reading a formal research article and extracting important information. Research articles play an important role in psychology as they present new findings and research that help us better understand the subject field. It is, however, important for us to understand what information is important as we weigh the value of the article we are reading. This assignment attempts to help us better understand those considerations.

Your first task is to read **How to Read Empirical Articles**

As you can see, it is important to understand *why* you are reading an article and it is important to understand *what* you want to get out of it.

Next, your task is to read **How to Read a Journal Article in Social Psychology**

- This article should help support your understanding of formal research articles and how to read them to support your research and learning.

Writing Assignment

Finally, it is time to apply what we have learned. Download the following article:

No More FOMO

After reading the article above, use the content to respond to the following questions:

1. Does this study reflect basic or applied research? How do you know?
2. What level(s) of analysis (biological, psychological, environmental) are being employed in this study? Explain and identify the specific details of the study that show this.
3. What were the findings of previous research that led the researchers to do this study? What was the research question that they attempted to answer? What was (were) the researchers' hypothesis(es)?
4. How was this study conducted? Was it an experiment or a non-experiment? How can you tell? What were the variables under investigation in this study? Identify the dependent and independent variables, if applicable.
5. What were the main findings of this study? How do they relate to the original study hypothesis(es)?

6. How do the researchers explain their results? What are some other possible explanations? What are some strengths of this study? Limitations?
7. What are the possible implications of these results in the real world?

Rubric for Writing Assignment #1

In addition to the criteria included in the rubric below, it is expected that students submit their assignments with an APA style title page.

Estimate that each response will be between one paragraph to $\frac{1}{2}$ a page (depending on what the question is asking and how much information is in the article). The total amount of content will be between $2\frac{1}{2}$ to 3 pages (not including the title page).

Exceeds Expectations | Meets Expectations | Minimally Meets Expectations | Does Not Meet Expectations |

||-|-| Responses are accurate and address the questions in a comprehensive manner|Responses are accurate and address the questions but could demonstrate more meaningful comprehension of content|Responses may lack accuracy in addressing the questions and/or may demonstrate limited comprehension of content|Responses do not accurately address the questions or do not demonstrate any comprehension of content| Clear, precise and well-reasoned responses| Mostly clear, precise and well-reasoned responses |Some clear, precise and well-reasoned responses | Responses lack clarity, logic and/or precision| |Spelling and grammar are accurate.| Minor and/or few spelling or grammatical errors.| Several spelling or grammatical errors.|

To submit your completed assignment, scroll to the bottom of the page and click on the “Writing Assignment #1” tab - follow the directions there.

Quiz #1

Upon completing your first Writing Assignment, you will next complete your first quiz.

Your instructor will provide additional instructions. Student's will be provided with one attempt. You will be provided information about when the quiz will open so you can begin.

To begin your quiz, click on the Quiz #1 tab at the bottom of the screen.

Checking your Learning

Before you move on to the next unit, check that you are able to:

- Define the key terminology concerning adulthood and aging.
- Describe the key areas of growth experiences by emerging adults.
- Explain age-related disorders such as Alzheimer's disease.
- Describe how cognitive abilities change with age.
- Apply effective communication principles to the challenge of improving your own relationships.
- Analyze the stereotype that old age is a time of unhappiness.

Chapter 5

Personality

Overview

In Unit 5 of the course, our attention will focus on personality. The study of personality attempts to answer the questions: *Who are you?* and, *How did you become who you are?* As human's are astoundingly complex, there is not any one theory that can capture, in totality, a description of who you are; hence, there are numerous approaches and theories that attempt to address these questions. In this unit, you will learn about some of the contemporary approaches to the study of Personality, and examine and review cultural, biological, Psychodynamic and Humanistic approaches to Personality.

Topics

This unit is divided into the following topics:

1. Psychoanalytic View
2. Humanistic View
3. Trait View
4. Social-Cognitive View

Learning Outcomes

By the end of this unit, student's will be able to:

- Define the key terminology associated with contemporary approaches, cultural and biological approaches, and psychodynamic and humanistic

approaches to personality.

- Describe the behaviourist and social-cognitive views, evolutionary theories, and Freudian developmental and defensive explanations of personality.
- Apply the “Big Five” personality traits, psychodynamic, and humanistic perspectives to understand personality.
- Analyze the roots of violence and prejudice, roles of personality traits and psychological and physical states, and the genetic basis of personality in determining behaviour.
- Assess claims that males and females have fundamentally different personalities and whether projective tests are valid measures of personality.

Activity Checklist

Here is a checklist of learning activities you will benefit from in completing this unit. You may find it useful for planning your work:

Read and Reflect

- Read *Krause et al. (2021). Revel for An Introduction to Psychological Science, 3rd Canadian Edition*

- Review **Unit 5- Slides**

CLICK HERE

An Introduction to Psychological Science - Chapter 12 - Personality
True or False?

1. Freud believed that boys develop sexual desires for their mother when they are between 3 and 6 years of age.
2. One of the most reliable and valid measures of personality is the Rorschach inkblot test.
3. Dreams are disguised wish fulfillments that can be interpreted by skilled analysts.
4. Psychologists generally agree that painful experiences commonly get pushed out of awareness and into the unconscious.
5. Most Americans believe that self-esteem is very important for motivating a person to work hard and succeed.

6. Personality differences among dogs are as evident and as consistently judged as personality differences among humans.
7. Most people recognize that personality descriptions based on horoscopes are invalid.
8. From a few minutes' inspection of our living and working spaces, someone can, with reasonable accuracy, assess our emotional stability.
9. Older people are happiest when they do not have to take responsibility for everyday decisions that affect their lives.
10. The majority of people suffer from low self-esteem.

Modules

- Contemporary Approaches to Personality
- Cultural and Biological Approaches to Personality
- Psychodynamic and Humanistic Approaches to Personality

Learning Objectives

- Know the key terminology associated with contemporary approaches to personality.
- Understand the behaviourist and social-cognitive views of personality.
- Apply self-report methods to understand your own personality.
- Analyze the personality roots of violence and prejudice.
- Analyze the relative roles of personality traits and psychological and physical states in determining behaviour.

Personality Exercise: Who am I?

- Describe your own personality by simply answering the question "Who am I?" on a piece of paper. Write at the top of the page "I am . . ." and then list about 20 characteristics that describe you. List what you consider to be some of your own positive and negative personality qualities.

Personality Exercise: Some Terms

- Sincere, honest, faithful, loyal, modest/unassuming, fair-minded, sly, greedy, pretentious, hypocritical, boastful, pompous, emotional, oversensitive, sentimental, fearful, anxious, vulnerable, brave, tough, independent, self-assured, stable, intellectual,

creative, unconventional, innovative, shallow, absentminded

- Outgoing, lively, extraverted, sociable, talkative, cheerful, active, shy, passive, withdrawn, introverted, quiet, reserved, patient, tolerant, peaceful, mild, agreeable, lenient, gentle, ill-tempered, stubborn, quarrelsome, choleric (easily angered), organized, disciplined, diligent, careful, thorough, precise, sloppy, negligent, reckless, lazy, irresponsible

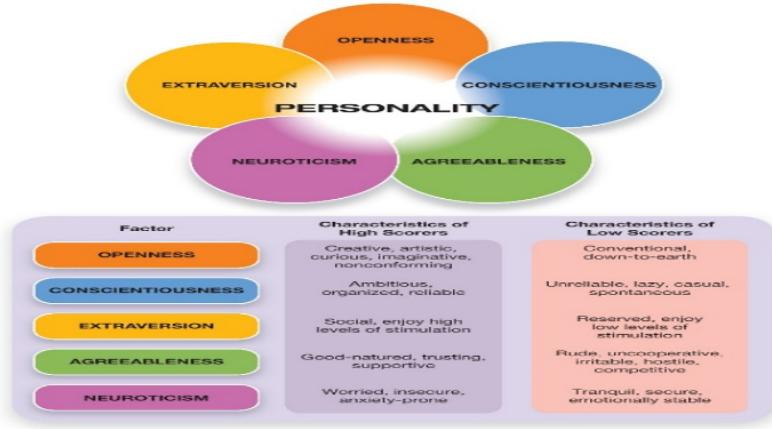
Approaches to Studying Personality

- Personality (p. 458)
 - Idiographic approach (p. 458)
 - Serial killer
 - Person-centred
 - Nomothetic approach (p. 458)
 - Descriptive labels
- The Trait Perspective
- Personality traits (p. 459)
 - Allport and Odbert
 - 18,000 descriptors
 - Factor analysis (p. 459)

The Five Factor Model

Figure 12.1 The Big Five Personality Dimensions

A widely used measure of personality is the NEO Personality Inventory (NEO-PI-R). Individuals rate themselves on multiple questions that reflect the traits of openness, conscientiousness, extraversion, agreeableness, and neuroticism. (To help you remember the Big Five, note that the first letters of the traits spell out OCEAN.)



Slide showing - The Big Five Personality Dimensions

Beyond the Big Five: The Personality of Evil?

- Authoritarian Personality
- HEXACO (p. 462)
- Honesty-Humility
- Right-wing authoritarianism (p. 463)
- The Dark Triad (p. 462)
- Machiavellianism
- Psychopathy
- Narcissism

Working the Scientific Literacy Model: Right-Wing Authoritarianism at the Group Level

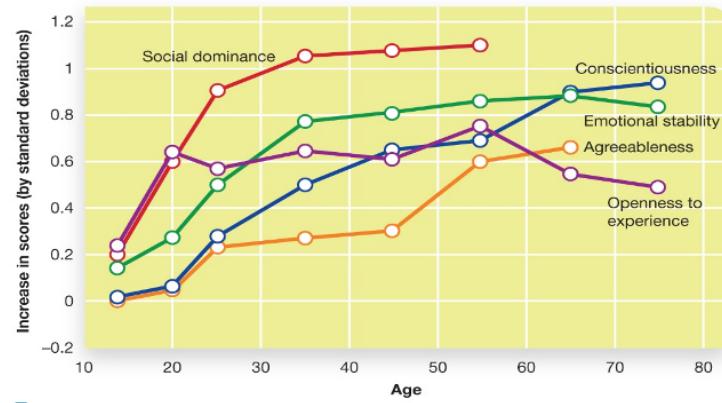
- What do we know about RWA?
- More RWA in society – leads to prejudice, aggression
- How can science determine how RWA affects groups?
- Global Change Game
- Can we critically evaluate this research?
- External validity

- Chance
- Student participants
- Why is this relevant?
- 21st century warning bell

Personality Traits over the Life Span

Figure 12.2 Personality Stability and Change over the Lifespan

Average scores of Big Five traits change over the lifespan. Generally, most traits become more positive through adulthood, although there are anomalies. Social dominance (an aspect of extraversion) remains stable after age 40. Conscientiousness does not begin rising until after the traditional college years. Openness to experience only rises up to the traditional university years, then remains largely stable until old age, when it declines (Roberts et al., 2006).



*Slide showing - Personality Stability and Change over the Lifespan
Personality Traits and States*

- State (p. 466)
- Four general aspects of situations
 - Locations
 - Associations
 - Activities
 - Subjective states

Behaviourist and Social-Cognitive Perspectives

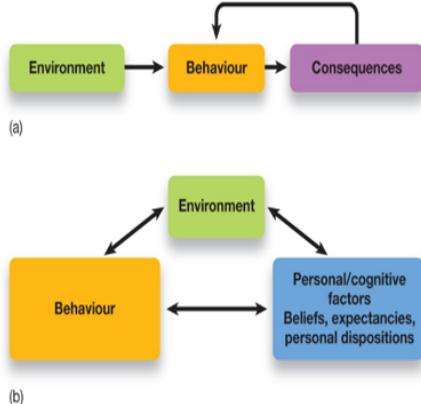
Figure 12.3 Behavioural and Social-Cognitive Approaches to Personality

(a) Behaviourist Account of Personality.

Behaviourists thought that what psychologists call personality was an expression of relationships between behaviour, rewards, and punishment.

Behaviourists avoided referring to personality traits and dispositions, instead focusing on how past experiences predict future behaviours. For example, whether someone tends to be pessimistic might be based on past experiences of feeling a lost sense of control. **(b) Reciprocal Determinism and the Social-Cognitive Approach.**

According to Albert Bandura and colleagues, personality is a product of dynamic interactions between behaviour and reinforcement, and, importantly, the beliefs, expectancies, and dispositions of the individual.



Source: Ciccarelli, S. K., & White, J. N. (2012). *Psychology: An Exploration* (Subscription 2nd ed., ©2012). Reprinted and electronically reproduced by permission of Pearson Education, Inc., New York, NY.

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Slide showing - Behavioural and Social-Cognitive Approaches to Personality

Learning Objectives

- Know key terminology associated with cultural and biological approaches to personality.
- Understand how evolutionary theories explain personality.
- Apply your knowledge to arrive at accurate conclusions about the influences of biological and cultural factors on personality.
- Analyze claims that males and females have fundamentally different personalities.
- Analyze the genetic basis of personality.

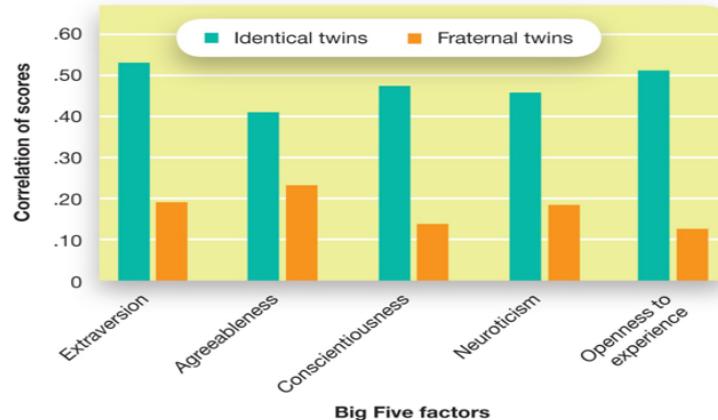
Culture and Personality

- Personality structures in different cultures
- Comparing personality traits between nations
- Challenges in cross-cultural research
- Response styles (p. 472)

How Genes Affect Personality

Figure 12.4 Genes and Personality

Identical twin pairs show higher genetic correlations than do fraternal twins for each of the Big Five personality traits. Numerical estimates of genetic correlations differ depending on the populations sampled, but studies typically show a genetic basis for each of the five factors (Bae et al., 2013).



Slide showing - How Genes affect Personality

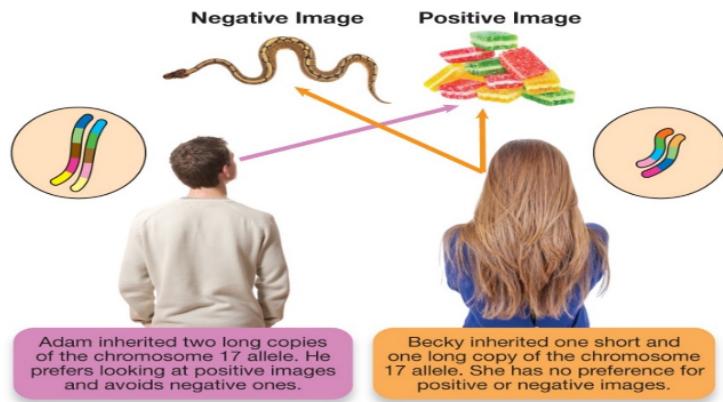
Working the Scientific Literacy Model: From Molecules to Personality

- What do we know about specific genes and personality?
 - Genes code for brain chemicals related to personality
 - * Serotonin
- How do scientists study genes and personality?

Working the Scientific Literacy Model: From Molecules to Personality (2 of 3)

Figure 12.5 Genes, Serotonin, and Personality

People who inherit two copies of the long version of the serotonin transporter gene fixate on positive images and avoid looking at negative images. People who inherit the short version of this gene are not biased toward attending to positive imagery.



Slide showing - Genes, Serotonin, and Personality

- Can we critically evaluate this evidence?
 - Multiple genes interact with environment
 - Should not infer causality
- Why is this relevant?
 - Understanding of biological basis of disorders
 - Better treatments

The Role of Evolution in Personality: Animal Behaviour

- Big Five traits found in a number of species
 - Parus major
 - * Some bold, others shy
 - Chimpanzees
 - Extraversion, conscientiousness, and agreeableness
 - Octopuses
 - Activity, reactivity, and avoidance

Why There Are So Many Different Personalities: The Evolutionary Explanation

- Core personality traits across cultures

- Individuals select environments that match personality characteristics

MYTHS IN MIND: Men are from Mars, Women are from Venus

- Gender differences greatly exaggerated
 - Influenced by resource availability

The Brain and Personality

- Four Humours (400 BC)
- Phrenology (1700s)
- Extraversion and arousal: brain regions (1967)
- Approach/Inhibition model of motivation (1991)

Learning Objectives

- Know the key terminology related to psychodynamic and humanistic approaches to personality.
- Understand how people use defense mechanisms to cope with conflicting thoughts and feelings.
- Understand the developmental stages Freud used to explain the origins of personality.
- Apply both psychodynamic and humanistic perspectives to explain personality.
- Analyze whether projective tests are valid measures of personality.
- Analyze the strengths and weaknesses of psychodynamic perspectives.

The Psychodynamic Perspective

- Unconscious processes and psychodynamics
 - Sigmund Freud (1800s)

- Key observations
 - * Unconscious influences behaviour

- * Personality forms in early childhood

- * Mental representations shape behaviours

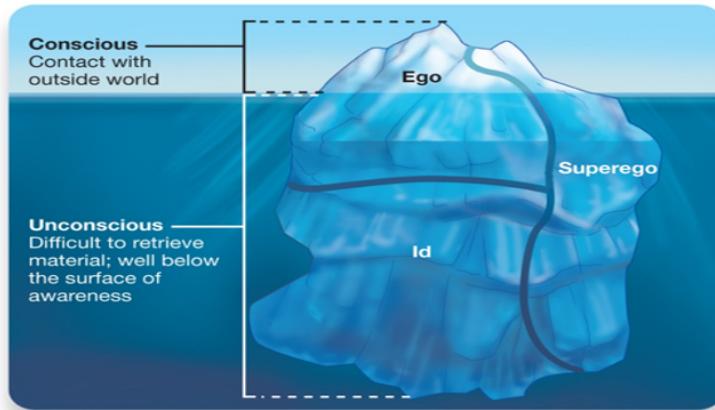
Unconscious Processes and Psychodynamics

- Unconscious mind (p. 483)
 - Impulses and drives
- Conscious mind (p. 483)
 - Aware of these

The Structure of Personality

Figure 12.6 Personality Stability and Change over the Lifespan

A popular depiction of how Freud viewed personality features an iceberg, with the unconscious mind residing below the surface and conscious awareness at only the tip of the iceberg. The id is completely submerged, whereas the ego and the superego operate at both unconscious and conscious levels.



Slide showing - Personality Stability and Change over the Lifespan

Defense Mechanisms (1 of 3)

Table 12.3 Examples of Some Major Defence Mechanisms

Defence Mechanism	Definition	Example
Denial	Refusing to acknowledge unpleasant information, particularly about the Self	People deny all sorts of things—ways in which they are to blame for their relationship problems; bad things that other members of their family may be doing; dangerous behaviours, such as drinking while pregnant, that they may be engaged in; and truly, just about anything. Simply blocking distressing things from your mind can be a remarkably effective strategy (until it eventually comes back to haunt you).
Displacement	Transforming an unacceptable impulse into a less unacceptable or neutral behaviour	After getting criticized by your boss at work, you go home and yell at your spouse or criticize your roommate for not doing more housework. One way or another, you ‘take out your anger’ on a less dangerous target than your boss.
Identification	Unconsciously assuming the characteristics of a more powerful person in order to reduce feelings of anxiety or negative feelings about the self	A child acts like their favourite hero-figure or an adult copies a trend-setting celebrity. By associating with a powerful, successful figure, they feel more powerful and successful too.

Slide showing - Examples of Some Major Defence Mechanisms

Defense Mechanisms (2 of 3)

Defence Mechanism	Definition	Example
Projection	Perceiving in other people the qualities that you don't want to admit to possessing yourself	The classic insecure, tyrannical parent, who sees hostility and "attitude" in other people, like his kids or his wife, thinking that other people are always seeing themselves as superior and are looking down their noses at others. Projection also allows us to see "evil" and aggression in our enemies while we invade and bomb them.
Rationalization	Attempting to hide your true motives (even from yourself!) by providing what seems like a reasonable explanation for unacceptable feelings or behaviours	People who are prejudiced against certain types or groups of other people may not see themselves as racist, but may instead believe that the group they are prejudiced against actually does possess certain negative qualities. By believing that people from the disliked group are violent, or lazy, or unintelligent, the person never has to confront their own prejudice.
Reaction formation	Altering an impulse that one finds personally unacceptable into its opposite	People who are judgmental and condemning of homosexuality, yet have homosexual impulses themselves. For example, homophobic men tend to have greater penile arousal, compared to non-homophobic men, when looking at male-on-male pornography (Adams et al., 1996).

Defense Mechanisms (3 of 3)

Defence Mechanism	Definition	Example
Repression	Keeping distressing information out of conscious awareness by burying it in the unconscious	Many people believe that victims of abuse or violence are sometimes able to repress their traumatic memories, essentially "forgetting" that the trauma occurred. Nevertheless, the trauma remains in their unconscious, causing them to react in ways that are driven by this unconscious material.
Sublimation	Transforming unacceptable impulses into socially acceptable or even prosocial alternatives	Someone with a great deal of aggression may become a football player or a boxer. Freud believed that sublimation was one of the cornerstones of civilization, the mechanism by which base human desires were harnessed to give rise to great works of art, invention, and scientific advance. Sublimation operates to make you feel better by finding socially acceptable outlets for unconscious drives and urges.

Personality Development: The Psychosexual Stages

Table 12.4 Freud's Stages of Psychosexual Development

Stage	Pleasure Focus	Key Dynamics
Oral (0–18 months)	Actions of the mouth—sucking, chewing, swallowing	This stage is about the foundation of the ego. Fixation at this stage represents a basic lack of self-confidence and "ego-strength," leaving the person more dependent on, and therefore vulnerable to, external sources of support.
Anal (18–36 months)	Bowel elimination, control	This stage is about the development of a sense of control and competence. Fixation at this stage leads to an "anal retentive" or "anal explosive" personality, manifesting either as an obsession with cleanliness, order, and control, or as a disorganized person.
Phallic (3–6 years)	Genitals	The key personality challenge is the Oedipus complex, through which a person further develops the superego due to the internalization of values from the parents. Fixation at this stage leads to problems with jealousy and obsessions with power and sex.
Latency (6 years until puberty)	External activities	Ideally, this stage is fairly conflict-free. People focus on developing themselves, discovering their interests through sports, arts, and general activities. Fixation at this stage was not considered to be a big concern.
Genital (puberty to adulthood)	Sexual activities with others	Ideally, this stage is also fairly conflict-free. People focus on fully and authentically engaging in the world, provided they are not fixated at earlier stages.

Slide showing - Freud's Stages of Psychosexual Development

Exploring the Unconscious with Projective Tests (1 of 3)

Figure 12.7 The Rorschach Inkblot Test

Some psychologists attempt to measure personality characteristics by analyzing the verbal responses clients use to describe what they see in an inkblot such as this (which clearly shows an image of your parents).



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Slide showing - The Rorschach Inkblot Test

Exploring the Unconscious with Projective Tests (2 of 3)

Figure 12.8 The Thematic Apperception Test

In this projective test, the individual is asked to tell a story about what is happening in the image. The responses to this task are believed by some to give important insights into an individual's personality.



Slide showing - The Thematic Apperception Test

Exploring the Unconscious with Projective Tests (3 of 3)

Figure 12.9 Figure Drawing as a Projective Test

Figure drawing is another projective technique used by many psychologists. The content of the drawings is analyzed and interpreted by the therapist. It turns out that these drawings are somewhat related to artistic ability and intelligence, but not personality (Lilienfeld et al., 2000).



Source: Scott O. Lilienfeld, James M. Wood and Howard N. (2000). *Garb Psychological Science in the Public Interest*, 1(2), 27–66.

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Slide showing - Figure Drawing as a Projective Test

Working the Scientific Literacy Model: Perceiving Others as a Projective Test

- What do we know about the way people perceive others?
 - We make assumptions of others
 - * May reflect our personality
- How can scientists study how projection relates to personality?
 - Self-ratings on Big Five can be seen in perceptions of others
- Can we critically evaluate this research?
 - Small correlations
 - Only with positive and negative attributions

- Why is this relevant?
 - Problems and controversy with projective tests
 - * Need more objective measures

Alternatives to the Psychodynamic Approach

- Carl Jung (1875-1961)
 - Analytical psychology (p. 490)
 - Personal, Collective unconscious (p. 490)
 - Archetypes (p. 490)
- Alfred Adler (1870-1937) and Karen Horney (1885-1952)
 - Inferiority complex (p. 490)

Humanistic Perspectives

- Carl Rogers, Abraham Maslow
 - Self-actualization (p. 491)
 - Person-centred perspective (p. 491)

Please note, the slides are intended to supplement the information found in your textbook. If you are having trouble viewing them, they can also be downloaded by scrolling to the bottom of the screen and clicking on the “Unit 5- Slides” link.

- This Learning Activity is an opportunity to explore dreams and birth order, two of the constructs that help shape and reflect who we are as individuals. Keep in mind, though, there are many different theories and interpretations on the role dreams and birth order play.
- The humanistic view, as it relates to personality, sees self-esteem as key ingredient for success in life. The articles in this activity illuminate how a healthy self-esteem can benefit personality

development. It will also be helpful for preparation for discussion this week.

- In this activity you will have the opportunity to analyze the power of the environment in influencing your perceived options. The concepts of Learned Helplessness vs. Learned Optimism will be used to highlight how important environmental factors are.

Practice, Read, and Reflect

- In this activity you will have the opportunity to take a personality test (from a list of options). I would encourage you to interact with the results and ponder whether or not you think the test is accurate or inaccurate and whether or not the information provided seems unique to you or could it be applied to anyone given the right situation.

Key Terms Quiz

- Practice quiz to assess how well you know key terms from Chapter 12.

- Not for formal evaluation.

Learning Lab Preparation

- Each topic will provide a question or scenario for you to consider prior to attending your Learning Lab. Be sure to carefully consider each prompt as you will be expected to contribute to the group discussion.

Resources

Here are some additional resources that will help you complete this unit:

- Krause, M., Corts, D., Smith, S. C., & Dolderman, D. (2018). *Revel for An Introduction to Psychological Science, 2nd Canadian Edition*. Pearson Ed.
- Other resources will be provided online.

5.1 Psychoanalytic View

“We are sent into this world to acquire a personality and a character to take with us that can never be taken from us.” (*In a letter from a WW II Royal Air Force pilot to his mother*)

Personality Theories

In this chapter we consider the topic of personality theories. In doing this we examine several major perspectives. Within each of these there are many

variations (e.g., Adler, Jung, and Freud within the psychoanalytic perspective). If you would like to know more about this area, you might be interested in taking the course “Theories of Personality” (*Psychology 301 at TWU*).

Aside from all these more formal theories, each of us has an implicit personality theory. This is our personal idea of what people are like, including which personality characteristics go together. For example, we think of people who are attractive and intelligent as likable rather than unlikable. Our socialization leads us to assume certain traits go together. As you go through this chapter, you may find some approaches are closer to your own assumptions (implicit theory), and you may prefer these approaches to others. You may also find your implicit theory becomes more explicit. Finally, you may even modify your own theory in the face of new information.

Dreams

“And afterward, I will pour out my Spirit on all people. Your sons and daughters will prophesy, your old men will dream dreams, your young men will see visions” (*Joel 2:28*).

God apparently spoke through dreams many times in the bible, and in *Joel 2:28* He promised to do so in the future. Does God still (or again) speak through dreams? Are we missing out on a possible leading from God when we ignore our dreams? If you would like to read more on this subject you might be interested in books by Christians on this subject. For example, see John A. Sanford’s *Dreams, God’s Forgotten Language*, or Morton T. Kelsey’s *God, Dreams, and Revelation*, or Abraham Schmitt’s *Before I Wake*. The website below (cf. Online Resources) contains some balanced advice. Also, voice your opinion or give your experience in the online discussion.

Birth Order

You may be familiar with Adler’s concept of the family constellation, which implies that position in the family has a powerful effect on goals, self-concept, and ways of relating to others.

As a test of this concept, think of a three-child family, all of whom were born within a few years (using larger families makes things too complicated). Try applying Adler’s theory to predict which child in the family is likely to be:

- the best student
- the most shy
- the most helpful around the house
- the most outgoing

- the “hell raiser”
- the most “helpless”
- the charmer
- the “baby” of the family

You will not always be right—but neither was Adler. The important thing is to note that Adler made psychology aware of the different expectations and social influences on different children in the same family. In some respects, children in the same position in different families are more alike than are children in different positions in the same family

Activity: Read and Reflect

Having just introduced Personality Theories to the course, we begin to explore psychoanalytic views of human development. Dreams and birth order are but two of the constructs that help shape and reflect who we are as individuals- there are many different theories and interpretations on the role dreams and birth order play. Take a moment to consider the following articles:

- **Christian Perspective on Dreams**

- **Birth Order and Your Personality**

Learning Lab Preparation

Prior to your Learning Lab, take some time to think about the following questions. You will be asked to share your thoughts in this week’s Learning Lab:

- *Does God speak through dreams?*

- *What reasons do you have for your opinion? Can you give an example?*

5.2 Humanistic View

Self-Esteem

In 1890, William James gave a simple formula for self-esteem:

$$\text{Self-Esteem} = \frac{\text{Success}}{\text{Pretensions}}$$

James explained:

Such a fraction may be increased as well by diminishing the denominator as by increasing the numerator. To give up pretensions is as blessed a relief as to get them gratified; and where disappointment is incessant and the struggle unending, this is what men will always do. . . . How pleasant is the day we give up striving to be young—or slender! Thank God we say, those illusions are gone. (James, 1890) (Quoted from *Invitation to Social Psychology* by Ron Philipchalk)

In his textbook, David Myers discusses the pros and cons of promoting self-esteem. Consider also the following:

Self-Esteem: A Contrary View

Self-esteem is a popular topic in North American society and researchers have expended a vast amount of effort studying it. Approximately 10,000 studies have explored the possible relationship between self-esteem and various human problems (Scheff et al., 1989). The assumption that low self-esteem is at the root of many personal and social problems has reached the level of a cultural truism. The California legislature (1990) has even established a task force to promote self-esteem, believing that enhanced self-esteem is a vaccine against drug abuse, teen-age pregnancy, welfare dependency, and other social ills. Sharon Neuman (1992) suggests that the need to enhance self-esteem has become a “motherhood issue”—meaning that belief in its value is so widely accepted it goes unquestioned.

Recently, however, several authors have begun to challenge this focus on raising self-esteem. They point out that high self-esteem can sometimes be detrimental, if, for example, it leads people to set inappropriate, risky goals that are beyond their capabilities (Baumeister, et al., 1993a). In addition, the relationship between self-esteem and other measures of well-being is often weak or nonexistent (Burr & Christensen, 1992; Hermans, 1992; Jackson, 1984). Perhaps most importantly, high self-esteem may be the result and not the cause of other positive tendencies (Alexander & Baker, 1992).

Sharon Neuman (1992) argues that self-esteem must follow, not precede, real achievement. She claims that no number of self-esteem programs can replace the genuine satisfaction of a job well done. Wesley Burr and Clark Christensen (1992) suggest that the idea that we must esteem ourselves highly before we can value and love others is a “Western myth.” They add:

We would improve our thinking if we were to take the idea that “we cannot love others until we love ourself” and turn it 180 degrees to be: “We cannot love ourself until we love others.” We would further improve our thinking if we then concluded that this is a fairly irrelevant and unimportant idea anyway because it still implies that loving ourself is what is important. (p. 464)

Burr and Christensen suggest that self-esteem is a fruit and not a root of healthy emotional connections between people. (*From Invitation to Social Psychology by Ron Philipchalk*)

5.3 Christianity & Humanism

Some Christians object to the humanistic perspective because of its unqualified affirmation of human goodness and its apparent promotion of self-love. It is important to note, however, that humanistic psychology is not to be equated with the philosophy and social movement called humanism. Although it focuses on humans, so too do other approaches to personality. (The behavioral psychologist B.F. Skinner was a signatory to the Humanist Manifesto but a major opponent of humanistic psychology.) In his authoritative work on the history of psychology, Ernest Hilgard writes, “Humanistic psychology as something contemporary is not to be confused with other forms of humanism, such as humanistic studies which refer to classical or liberal arts topics, or that form of humanism which sets itself against theological beliefs (1987, p. 504). In fact, J.I. Packer and Thomas Howard in their book Christianity: The true humanism (1985) argue that only Christianity gives a valid basis for assuming humans have value.

Activity: Read and Reflect

As we explore a humanistic view, as it relates to personality, we start to see the development of self-esteem. This will be the focus of this unit’s Learning Lab. In order to prepare for discussion this week, take a moment to consider the following resources:

- [Kids Health: Self Esteem](#)
- [National Association for Self-Esteem](#)
- [Society for Humanistic Psychology](#)

The purpose of these resources is to help you assess your self-esteem, help to build a healthy self-esteem, and to provide you with a credible site for learning more about Humanistic Psychology.

Learning Lab Preparation

Prior to your Learning Lab, take some time to think about the following questions. You will be asked to share your thoughts in this week's Learning Lab:

- *If you wanted to study the psychologically healthiest individuals, whom would you study? How would you decide?*

5.4 Trait View

Trait Theory

In the previous lesson we discussed implicit theories of personality. Many people's implicit theories include elements of trait theory. They believe that personality is made up of traits. For example, popular ideas of leadership and success often rest on this assumption (e.g., Traits for success).

Actually this view is quite old, going back to the ancient Greeks:

Almost 2,000 years ago a Greek physician named Galen suggested that there were four basic types of personality, based on four different "humors," or fluids, in the body. Galen called these personality types sanguine, phlegmatic, choleric, and melancholic. When Eysenck combined his two basic personality scales, he found that he had a "less humorous" version of a classic theory. (*from Understanding Human Behavior by Ron Philipchalk & James McConnell*)

In psychology today there is a growing effort towards accurate measurement of personality traits, and investigation of the ways in which traits interact with the environment.

One of the most popular applications of trait theory is in the prediction of employee success. After looking at the "Big 5," which trait do you think is the most important? Imagine you own a business and you have to make a quick decision to hire one of 5 very similar applicants. The only trait measure you have is each applicant's score on the "Big 5." The only problem is that each one scores high on a different factor. Which one would you hire?

Measuring Personality

The trait approach to personality is closely linked to the matter of psychological testing. The strength of this approach is that it provides quantifiable data for analysis and comparison. The weakness is the difficulty in measuring traits accurately. Remember our discussion of *standardization, validity, and reliability* of intelligence tests? Personality tests must also meet the same criteria. (An

additional problem is that our situations guide us as well as our traits.) This is an important point to remember when you encounter the many so-called personality tests in the popular media.

Barnum Effect

Do you have a desire to know what “kind” of person you are? This common desire can be used to manipulate you in a variety of ways. As discussed in the textbook, sometimes it is easier to make people believe that you are measuring their personality than it is to actually measure it. In fact, it is remarkably easy for people to be convinced that a personality profile describes them well. This phenomena is known as “the Barnum effect,” after the circus showman P. T. Barnum. The Barnum effect hearkens back to the late 1940s, when psychologist Bertram Forer gave research participants a personality test and then generated a personality description that subjects believed was based on their test responses. Even though all participants were given exactly the same personality description, they found the profile to be highly convincing and descriptive of them as an individual. When asked to rate how well the profile described them, on a scale ranging from 0 (very poor) to 5 (excellent), the average rating was an impressive 4.26 (Forer, 1949). You, too, can try this experiment. Read the personality description below and rate, on a scale ranging from 0 (very poor) to 5 (excellent), how well this description describes you:

You have a strong need for other people to like you and for them to admire you. You have a tendency to be critical of yourself. You have a great deal of unused energy which you have not turned to your advantage. While you have personality weaknesses, you are generally able to compensate for them. Your sexual adjustment has presented some problems for you. Disciplined and controlled on the outside, you tend to be worrisome and insecure inside. At times you have serious doubts as to whether you have made the right decision or done the right thing. You prefer a certain amount of change and variety and become dissatisfied when hemmed-in by restrictions and limitations. You pride yourself as being an independent thinker and do not accept other opinions without satisfactory proof. You have found it unwise to be too frank in revealing yourself to others. At times you are extroverted, affable, sociable, while at other times you are introverted, wary, and reserved. Some of your aspirations tend to be pretty unrealistic.

Activity: Practice, Read, and Reflect

In this topic we have continued to develop our understanding of personality. This will be the focus of this unit’s Learning Lab. In order to prepare for discussion this week, take a moment to consider the following resource:

- **Queendom.com**

Queendom.com is a great resource for different kinds of tests. You will be looking specifically at Personality tests on this site. When you go to www.queendom.com, click on the “**TESTS, QUIZZES & POLLS**” tab and select **TESTS**. From the **PERSONALITY TESTS** list select ONE of the following personality tests:

- DISC Personality Test
- Big Five Personality Test
- Self-Control & Self-Monitoring Test
- Happiness Test
- Locus Of Control & Attributional Style Test

Then interact with the results and ponder whether or not you think the test is accurate or inaccurate and whether or not the information provided seems unique to you or could it be applied to anyone given the right situation.

Learning Lab Preparation

Prior to your Learning Lab, take some time to think about the following questions. You will be asked to share your thoughts in this week's Learning Lab:

- *What is the role of heredity in personality?*
 - *Is our personality inherited and set for life? Can it be modified?*
- Author Tim LaHaye has taken the Greek idea of types and body humors and adapted it to a Christian perspective incorporating the concept of spiritual gifts.
- *Does the bible support an approach to personality that links individual differences to inherited traits?*
 - *What is the role of the Holy Spirit in relationship to traits? - Are these different “gifts” (I Cor. 12)? Different “fruit (Gal 5:22)? Can they be changed?*

5.5 Social-Cognitive View

You + Your Environment

Social-Cognitive Theory (SCT) was originally formulated by Albert Bandura at Stanford University. The fundamental premise of SCT is that models serve as the basis for learning new behaviours and that learning occurs in a social context

with a dynamic and reciprocal interaction of the person, environment, and behavior; this is known as reciprocal determinism. Its emphasis is on external and internal social reinforcement and how these factors shape and maintain behavior in different environments. The theory also recognizes the influence of a person's past experiences, which factor into whether behavioral action will occur. These past experiences serve as the primary reinforcements and expectancies, shaping whether or not a person will engage in a specific behavior and answering why a person engages in that behaviour.

In summary, the Social-Cognitive view recognizes the mutual interdependence ("reciprocal determinism") of individual qualities and situations. While we do have individual patterns of behaviour, we exhibit these according to the way we perceive our situation.

Activity: Read and Reflect

Who we are is, in large part, shaped by the environment in which live. This will be the focus of this unit's Learning Lab. In order to prepare for discussion this week, take a moment to consider the following resources:

- Learned Helplessness
- Learned Optimism Test

The above resources will help you to think about how your environment can impact your sense of agency (the ability to choose your behaviours to impact the environment) and how your sense of agency can influence your environment. This demonstrates the key idea of Social-Cognitive Theory, that you are in a constant, dynamic relationship with your environment and each factor is shaped by the other.

Key Terms Quiz

In order to review some of the major terms from Chapter 12 in your textbook, take the following unmarked quiz. Although you will not be evaluated on these terms, they will assist you in the assessments for this course:

Learning Lab Preparation

Prior to your Learning Lab, take some time to think about the following questions. You will be asked to share your thoughts in this week's Learning Lab:

Research indicates that an internal locus of control is associated with more positive psychological outcomes than an external locus of control.

- *Does this mean that Christians (and others who believe in God) are less psychologically healthy because they believe an external force (God) is in control?*

Assessment

While there is no “formal” assignment that you will be responsible for submitting for Unit 5, you will be expected to participate in discussion during your Learning Lab. Your facilitator will be providing a participation mark based on your contributions.

Below is some information to consider prior to attending your Learning Lab:

Learning Lab

Your facilitator will be providing a participation mark based on your contributions for this unit. Below is some information to consider prior to attending your Learning Lab:

Active participation in group exercises, reflection, and critical discourse is an essential component of this course. You are expected to show respect for all members of the course, both in your speech and actions. Contribute by actively observing and listening, raising thoughtful questions, examining relevant issues, building on others’ ideas, analyzing and evaluating the group’s thinking, synthesizing key points, and expanding the group’s perspectives. Take care not to dominate a conversation, giving space for others to speak. When in small groups help maintain the focus, flow, and quality of conversations, and take the initiative to invite others (particularly those who are quiet) to speak.

Rubric for Participation in Learning Labs

Emerging (0-64%)	Developing (65-89%)	Mastering (90-100%)
Nvr to almost never: Demonstrates active listening (as indicated by disengaged body language and no to rare comments that build on others' remarks), Initiates any contributions in class or small groups, Makes insightful or constructive comments, Helps maintain a supportive space for others to speak.	Sometimes to fairly often: Demonstrates active listening (as indicated by somewhat to often engaged body language and comments that build on others' remarks), Initiates a contribution at least once in a class or small group discussion; Makes insightful or constructive comments, Helps maintain a supportive space for others to speak.	Very often to nearly always: Demonstrates active listening (as indicated by fully engaged body language and comments that build on others' remarks), Initiates more than one contribution in a class or small group discussion, Makes insightful or constructive comments, Creates a space for others to speak and takes initiative to include others.

Checking your Learning

Before you move on to the next unit, check that you are able to:

- Know the key terminology associated with contemporary approaches, cultural and biological approaches, and psychodynamic and humanistic approaches to personality.
- Describe the behaviourist and social-cognitive views, evolutionary theories, and Freudian developmental and defensive explanations of personality.
- Apply the Big Five personality traits, psychodynamic, and humanistic perspectives to understand personality.
- Analyze the roots of violence and prejudice, roles of personality traits and psychological and physical states, and the genetic basis of personality in determining behaviour.

- Analyze claims that males and females have fundamentally different personalities and whether projective tests are valid measures of personality.

Chapter 6

Social Psychology - Part 1

Overview

No single factor has more impact on shaping the quality and direction of your life over virtually every aspect of your existence than relationships. In a way, everyone is a social psychologist. People constantly form ideas/opinions about why a person or a group of people are acting the way they are. Social psychology is similar to what people find themselves naturally doing except it uses scientific tools to study these hypotheses (the ideas/opinions). Social psychologist are primarily interested in examining the different ways that individual's effect groups of people and the way groups of people effect individual's. In this unit you will be introduced to some historical studies and main concepts in this field. Topics covered in this chapter include social influences on behaviour, social impressions and judgements, the relationship between attitudes and behaviour, and effective communication. Unit 6 (Part 1) looks at attributes and actions, conformity, obedience, and compliance. Unit 7 (Part 2) examines prejudice and aggression, and, though not specifically covered in the textbook, yet important to social psychology, attraction and altruism.

Topics

This unit is divided into the following topics:

1. Attributes and Actions
2. Conformity
3. Obedience
4. Compliance

Learning Outcomes

By the end of this unit, student's will be able to:

- Define, and apply, the key terminology associated with social influence, social cognition, and on attitudes, behaviour, and effective communication.
- Describe why individuals conform to others' behaviours, how individuals and groups can influence behaviours, and how we form first impressions and how these impressions influence us.
- Apply your knowledge of the bystander effect to ensure that you will be helped if you are in an emergency, of social cognition to help overcome prejudice and discrimination, and of the central route to describe how a message should be designed.
- Analyze whether guards who participate in abuse are inherently bad people, or if their behaviour is the product of social influences and whether people who commit discriminatory acts are necessarily prejudiced.
- Describe how behaviours influence attitudes in terms of cognitive dissonance theory.

Activity Checklist

Here is a checklist of learning activities you will benefit from in completing this unit. You may find it useful for planning your work:

Read and Reflect

- Read Krause et al. (2021). *Revel for An Introduction to Psychological Science, 3rd Canadian Edition*
- Review Unit 6 - Slides

CLICK HERE

An Introduction to Psychological Science - Chapter 13 - Social Psychology

Biblical Word Study

² John 1:6 (NIV)

⁶ And this is love: that we *walk* in obedience to his commands. As you have heard from the beginning, his command is that you *walk* in love. Walk – Gr.περιπατεω (peripateō) – to tread about, walk about, and generally, to walk, to be walking; *to make one's way, make progress; to frequent, *stay in, a place*; to regulate one's life, to conduct one's self*, of the standard to which one governs his life; denoting either the state in which one is living, or the virtue or vice to which he is given.

- Questions to ask those you live and work with:
 - What is my effect on you?
 - What am I like to live with? Work with?
 - What is something that is difficult for you to bring up with me?
- A question to ask your self:
 - Who am I in relationship with others?
 - Questions like these can open the space to explore fear, worthlessness, shame and isolation, and can reveal strengths, gratitude, peace, joy, benefits, and maturity.

True or False?

- T F 1. Compared with people in Western countries, those in East Asian cultures are more sensitive to situational influences on behaviour.
- T F 2. To change people's racist behaviours, we first need to change their racist attitudes.
- T F 3. Chimps are more likely to yawn after observing another chimp yawn.
- T F 4. Most people would refuse to obey an authority figure who told them to hurt an innocent person.
- T F 5. Studies of college and professional athletic events indicate that home teams win about 6 in 10 games.
- T F 6. Individuals pull harder in a team tug-of-war than when they pull in a one-on-one tug-of-war.
- T F 7. The higher the morale and harmony of a social group, the more likely are its members to make a good decision.
- T F 8. Researchers project that, other things being equal, global warming of 4 degrees Fahrenheit (or about 2 degrees centigrade) would induce more than 50,000 additional assaults and murders in the United States alone.
- T F 9. From research on liking and loving, it is clear that opposites do attract.
- T F 10. We are less likely to offer help to a stranger if other bystanders are present.

Modules

13.1: The Power of the Situation: Social influences on Behaviour

13.2: Social Cognition

13.3: Attitudes, Behaviour, and Effective Communication



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Slide showing - Modules for this chapter

Learning Objectives

- Know the key terminology associated with social influence.
- Understand why individuals conform to others' behaviours.
- Understand how individuals and groups can influence behaviours.
- Apply your knowledge of being a passive bystander or active altruist to understand your own likeliness to help.
- Analyze whether people who harm others are fundamentally hurtful, mean people or if their behaviour is the product of social influences.

The Person and the Environment

- Kurt Lewin (1936): Behaviour is a function of the Person and the Environment
 - $B = f(P,E)$

Mimicry, Norms, and Roles

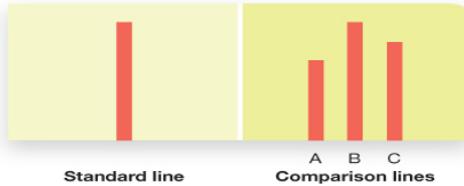
- Mimicry (p. 495)
 - Important social and functional reasons for doing so
- Social Norms (p. 495)
 - Unwritten guidelines for how to behave in social contexts

- Ostracism (p. 496)
 - Powerful form of social pressure
 - The Stanford Prison Study (Zimbardo)
 - Social roles (p. 496)
- Group Dynamics: Social Loafing and Social Facilitation
- Social loafing (p. 497)
 - When individuals put less effort into tasks when working with others
 - Social facilitation (p. 498)
 - When one's performance is affected by the presence of others

The Asch Experiments: Conformity (1 of 2)

Figure 13.1 Perceptual Judgment Task in Asch's Conformity Studies

Which of the comparison lines is the same length as the standard line? In Asch's experiments, many people conformed to the confederates and gave the wrong answer.



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Slide showing - The Asch Conformity Experiment

The Asch Experiments: Conformity (2 of 2)

Table 13.1 Personal and Situational Factors Contribute to Conformity

People Tend to Be Less Likely to Conform When ...	People Tend to Be More Likely to Conform When ...
Only one other person is in the vicinity	There is a larger group in the vicinity
There are only strangers in the room	There are friends, family, or acquaintances in the vicinity
There are extremely clear and simple tasks	The task is unclear or ambiguous
There is one other nonconformist in the room	Others conform first
Responses are made anonymously	Responses are made publicly

Slide showing - Personal and Situational Factors Contribute to Conformity

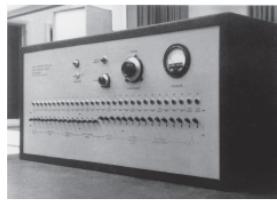
Groupthink

- Groupthink (p. 499)
 - When group members tend toward the same ideas to minimize conflict

Obedience to Authority: The Milgram Experiment (1 of 3)

Obedience (Milgram)

The “shock generator” that the teacher operated, purportedly to punish the learner.



From the film *Obedience* © 1968 by Stanley Milgram, © renewed 1993 by Alexandra Milgram, and distributed by Penn State Media Sales.

The “learner” gets set up to participate in the experiment. He is being hooked up to the device that the teacher believes will deliver a shock.



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Slide showing - The Milgram Experiment

Obedience to Authority: The Milgram Experiment (2 of 3)

Obedience (Milgram)

The experimenter explains to the “teacher” what the experimental procedure entails and how to use the shock generator.



From the film *Obedience* © 1968 by Stanley Milgram. © renewed 1993 by Alexandra Milgram, distributed by Penn State Media Sales.

Although most subjects were highly obedient, some, such as this person, refused to continue complying with the experimenter's orders.



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Slide showing - The Milgram Experiment 2

Obedience to Authority: The Milgram Experiment

- Variants of the experiment

- Change of clothing
- Different location
- Proximity of experimenter and “learner”

– Confederate dissenters

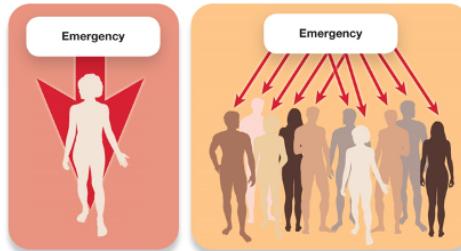
The Bystander Effect

- The bystander effect (p. 503)
- Diffusion of responsibility (p. 503)

The Bystander Effect (2 of 2)

Figure 13.2 Diffusion of Responsibility

If one person witnesses an emergency, it is as if 100% of the responsibility for helping falls on that person. If 10 people witness an emergency, that responsibility is diffused, so it is as if each person feels only 10% of the responsibility—which may not be enough to motivate a person to act.



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Slide showing - Diffusion of Responsibility

Working the Scientific Literacy Model: The Bystander Effect

- What do we know about the bystander effect?
- How can science study the bystander effect?
- Latané & Darley (1968)
 - Normative influences
 - Informational influences
 - Diffusion of responsibility

- Can we critically evaluate this evidence?
 - Bystander effects do happen
 - But, often, people do help, even when it puts them at risk
- Why is this relevant?
 - Programs to encourage helping

When People Decide to Act (1 of 2)

Altruism (p. 504)

Figure 13.3 Acts of Altruism

(Left) Wesley Autrey, a construction worker in New York City, leapt in front of a subway train to save a complete stranger, Cameron Hollopeter. Hollopeter had fallen on the tracks in the course of having a seizure. As another onlooker held Autrey's daughters in safety, he literally covered Hollopeter and held him still between the tracks as the train cars rolled just inches above his body. It was such a close call that Autrey emerged with grease from the train's undercarriage on his hat. Autrey's act was an amazing example of altruism, as he could not have possibly considered any benefit to himself at the moment of his brave act.

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Slide showing - Acts of Altruism

When People Decide to Act (2 of 2)

Altruism (p. 504)

Figure 13.3 Acts of Altruism

(Right) As a teenager in Pakistan, Malala Yousafzai had clear orders from an all-powerful authority—one far more threatening than in any social psychological study—and yet she made the choice to disobey. The Taliban had established a police state in her village and, among other things, forbade girls from getting an education. However, Malala insisted on going to school and, for this, she was shot in the face by a Taliban gunman. She miraculously survived and is now an international advocate for women's and girls' rights—and the recipient of a Nobel Peace Prize.



Paul Pickard/Alamy Stock Photo

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Slide showing - Acts of Altruism

Learning Objectives

- Know the key terminology associated with social cognition.
- Understand how we form first impressions and how these impressions influence us.
- Apply your knowledge of attributions and biases to better understand how you tend to perceive yourself and others.
- Analyze whether people who commit discriminatory acts are explicitly prejudiced.

Two Types of Cognitive Process

- Explicit processes (p. 507)
- Implicit processes (p. 507)
- Dual-process models (p. 507)

TPerson Perception

- Person perception (p. 507)
 - Schemas
 - Thin slices of behaviour (p. 507-508)

Self-Fulfilling Prophecies and Other Consequences of First Impressions

- Self-fulfilling prophecy (p. 508)
 - e.g., teachers' expectations of students

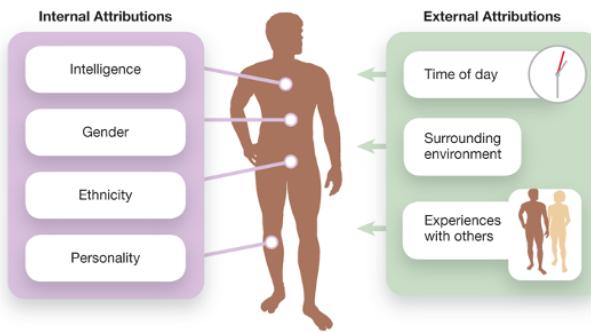
The Self in the Social World

- Projecting the self onto others: False consensus and naïve realism (p. 509)
- Self-serving biases (p. 510)
 - These arise out of a need to feel good about ourselves

Attributions (1 of 2)

Figure 13.4 Internal and External Attributions

Internal attributions are based on qualities or actions of the individual, whereas external attributions focus on the context in which the individual is situated.



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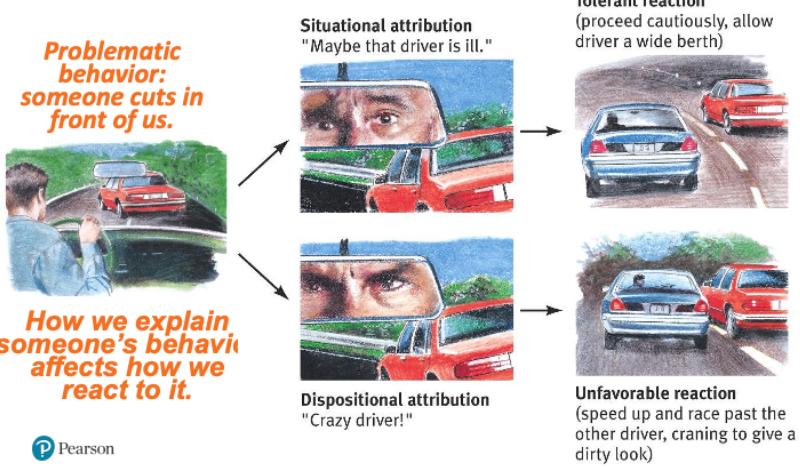
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Slide showing - Internal and External Attributions
Attributions

- Fundamental attribution error (p. 510)
 - Cultural phenomenon
- Ingroups and outgroups (p. 511)
- Ingroup bias (p. 511)

Social Thinking

Emotional Effects of Attribution



Slide showing - Emotional Effects of Attribution

Stereotypes, Prejudice, and Discrimination

- Stereotype (p. 512)

- Prejudice (p. 512)

- Discrimination (p. 512)

Prejudice in a Politically Correct World?

- Political correctness
 - Is it a neutral term?

- Prejudice is still prevalent

- Implicit vs. explicit processes in prejudice

MYTHS IN MIND: Are Only Negative Aspects of Stereotypes Problematic?

- “Well-intended” stereotypes
 - Gender
 - * Hostile sexism

- * Benevolent sexism

Working the Scientific Literacy Model: Explicit Versus Implicit Measures of Prejudice

- What do we know about measuring prejudice?

- Explicit prejudice
- Implicit prejudice
- How can science study implicit prejudice?
 - The I A T (p. 514)

Working the Scientific Literacy Model: Explicit Versus Implicit Measures of Prejudice (1 of 2)

What do we know about measuring prejudice?

- Explicit prejudice
- Implicit prejudice

How can science study implicit prejudice?

- The IAT

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Slide showing - Working the Scientific Literacy Model: Explicit Versus Implicit Measures of Prejudice

- Can we critically evaluate this evidence?
 - Validity of results
 - * Knowledge of stereotypes vs. personal stereotypes

- Why is this relevant?
 - Stereotypes about every social status

PSYCH @ The Law Enforcement Academy

- Video simulations
 - Mistaken shootings of innocent Black people
- Amadou Diallo
 - Mistakenly shot to death
- Police training
 - Shoot/do not shoot decisions

Improving Intergroup Relations

- How do we overcome implicit processes?
 - Reprogramming through practice
 - Contact hypothesis (p. 516)

Learning Objectives

- Know the key terminology in research on attitudes, behaviour, and effective communication.
- Understand how behaviours influence attitudes in terms of cognitive dissonance theory.
- Apply your knowledge of cognitive dissonance to see how well your beliefs match your behaviours.
- Analyze the difficulties communicators face in trying to convince the public to take action on important social and political issues.

Changing People's Behaviours

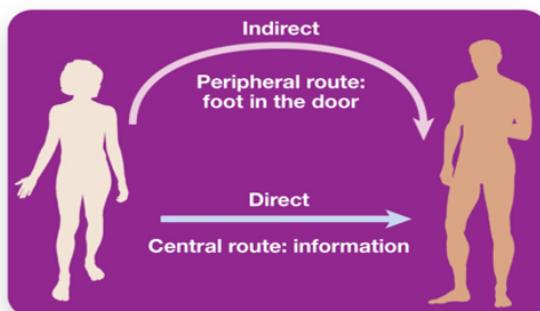
- How can we address climate change?
 - Technological
 - Legal
 - Economic
 - Social

Persuasion: Changing Attitudes through Communication

Elaborative Likelihood Model (E L M) (p. 519)

Figure 13.7 Central and Peripheral Routes to Persuasion

There are two ways that communications can persuade people. In the central route people are persuaded by the content of a message, while in the peripheral route they are influenced by the way the content is presented, the *style* over the *substance*.



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Slide showing - Central and Peripheral Routes to Persuasion

Using the Central Route Effectively

- Make it personal
 - Construal-level theory (p. 520)

- Value Appeals

Working the Scientific Literacy Model: The Identifiable Victim Effect

- What do we know about communicating about tragedy and danger?
- How can science explain the identifiable victim effect?
 - The experiential system (p. 522)
 - The analytic system (p. 522)

- Can we critically evaluate this evidence?

- Why is this relevant?
 - Connect issue to values of audience

Preaching or Flip-Flopping One-Sided vs. Two-Sided Messages

- Should you be "preachy" or a "flip-flopper"?

- Two-sided seen as more trustworthy
 - Attitude Inoculation (p. 523)

Using the Peripheral Route Effectively

- Authority
- Liking
- Social validation
- Reciprocity
 - Door-in-the-face technique (p. 524)
- Consistency
 - Foot-in-the-door technique (p. 524)

The Attitude-Behaviour Feedback Loop

- Cognitive Dissonance Theory (p. 525)
 - Doomsday cults

- Lying for \$1 vs. \$20

Please note, the slides are intended to supplement the information found in your textbook. If you are having trouble viewing them, they can also be downloaded by scrolling to the bottom of the screen and clicking on the “Unit 6 - Slides” link.

- This activity is an opportunity to examine attribution theory and cognitive dissonance. Put simply, attribution theory asserts that people explain other people's behaviour by looking at either their personal dispositions or their situation. Which lens you use to view people through powerfully shapes your thoughts and actions towards them. Next, cognitive dissonance involves mental discomfort when your attitudes and actions are not in alignments. The article on cognitive dissonance shares are three factors that influence the level of dissonance a person may feel.
- Social influence is everywhere; hence, it is important to recognize when you are being influenced by propaganda, brainwashing, or other manipulative messages. The first article in this activity allows you to interact with some facts and uses of social influence, which can increase your ability to recognize when these techniques are being used on, or by, you. The second article looks more in-depth than your textbook at the concepts of conformity and obedience and lays out different examples of each of these topics.
- This Activity focuses on conformity, compliance, and obedience, and a consideration of ethical principles. Doing research that involves the use of deception is a highly debated issue within psychology. The articles in this activity will help you to become more knowledgeable about Stanley Milgram and research that

looks at obedience. There is also a resource that discusses what the ethics psychologists must follow along with a decision-making process when facing an ethical dilemma article. *Do not feel compelled to read every article extensively (though, they are all interesting), a review of the material should be sufficient to answer the Learning Lab questions.*

- In this activity you will gain further knowledge about strategies that are employed to promote compliance. The first article draws attention to the myriad ways social media is, for the good and for the bad, shaping culture today. The second article describes the difference between what constitutes mind control versus social conditioning. This information is certain to be eye-opening.

Learning Lab Preparation

- Each topic will provide a question or scenario for you to consider prior to attending your Learning Lab. Be sure to carefully consider each prompt as you will be expected to contribute to the group discussion.

Resources

Here are the resources you will need to complete this unit:

- Krause, M., Corts, D., Smith, S. C., & Dolderman, D. (2018). *Revel for An Introduction to Psychological Science, 2nd Canadian Edition*. Pearson Ed.
- Other resources will be provided online.

6.1 Attributes and Actions

The Ultimate Attribution Error

If you study attribution further, perhaps in a “Social Psychology” course, you find that there are several errors in attribution common to our perceptions of behavior. The ultimate attribution error is a combination of biases that influences our interpretation of behavior in our friends and our foes. The ultimate attribution error is our tendency to use internal attributions to explain socially desirable actions by members of our own group and socially undesirable actions by members of an opposing group. The same bias leads us to use external attributions to explain socially undesirable actions of our own group and socially desirable actions of our foes (Hewstone, 1988; Pettigrew, 1979, 1980 ; Taylor and Jaggi, 1974).

A study by Donald Taylor and V. Jaggi (1974) illustrates this bias among south Indian subjects. Taylor and Jaggi found that Hindu subjects attributed so-

cially desirable actions to the good character of Hindus, but attributed the same actions in Muslims to environmental circumstances. In addition, Hindu subjects blamed socially undesirable actions on Hindus' circumstances and Muslims' character. We commit the ultimate attribution error when we say, "Our soldiers fight because they have to" (external attribution), but "Our enemies fight because they are warlike" (internal attribution). cf galley And, "Our soldiers are naturally brave"; "Our enemies are forced to do daring deeds."

The ultimate attribution error tends to perpetuate our false stereotypes and prejudices. Our biased interpretations have a plausible ring because the reasons for our enemies' actions are usually somewhat ambiguous and open to various interpretations. In addition, our friends fall into the same error and support our views. Consequently, we continue to see behavior the way we expect or would like it to be, and people we don't like never get a chance to prove us wrong. (*from Invitation to Social Psychology by Ronald Philipchalk*)

Actions and Attitudes

"You can't legislate morality" is a commonsense chestnut that social psychologists have found not to be true. Attitudes do follow behavior. Eliot Aronson makes a persuasive argument that racial prejudiced attitudes and behaviors in the have actually responded dramatically and positively to civil rights legislation and to court actions in the last several decades. In addition, he discusses several other methods that have been successfully used to reduce prejudice and discrimination, including his "jigsaw" technique, designed for use with grade school children. *Aronson, E. (1992). The social animal (6th ed.). New York: W. H. Freeman.*

Activity: Read and Reflect

Attributes, and our perception of attributes, has been the focus of this lesson. This will be the focus of this unit's Learning Lab. In order to prepare for discussion this week, take a moment to consider the following resources:

- **Attribution Theory**

- **Cognitive Dissonance**

These articles bring to light phenomena that tend to occur automatically (without conscious processing) for most people. Now that the concepts of attribution and cognitive dissonance are in your awareness it could be valuable to thoughtfully consider which attribution style you tend towards (dispositional or situational) and how that style influences how you treat others and how others respond to you. And, then ask, what am I doing with my cognitive dissonance? Do I tend to change my attitudes

to fit my behaviours or do I adjust my behaviours to be alignment with my attitudes, values, and beliefs?

Learning Lab Preparation

Prior to your Learning Lab, take some time to think about the following scenario. You will be asked to share your thoughts in this week's Learning Lab:

- *Describe a time when you were forced to act in a certain way, and then later found you had come to enjoy what you were doing. That is, your attitude followed your actions.*
- *Could this happen with religious attitudes and beliefs too?*

6.2 Conformity

“Oh, God, the terrible tyranny of the majority.” (*from Fahrenheit 451 by Ray Bradbury, p. 97*)

Conformity, vs. Compliance & Obedience

In this lesson, and the next two, we will be looking at social influence. Because this is a large and interesting topic we will discuss three types of social influence separately, conformity, compliance, and obedience. Conformity, our topic for today, refers to going along with other people without anyone explicitly asking you to. Compliance refers to going along with the request of another person when you have a choice not to. Being influenced by a salesperson to buy something is an example of compliance. Obedience refers to going along with an order when no choice is offered, as in the army.

Norms

Group expectations or norms exert a powerful influence on our behavior. We generally go along with what people expect of us not because we have to but because resistance is so uncomfortable. You can experience the power of group norms in controlling your behavior if you attempt to violate a norm for acceptable behavior (e.g., go the front of a line and edge in; ask someone for their seat on a bus or subway; sit close to a stranger in a public place when other seats are available).

Using Conformity

At the lowest level of social influence people are observed to go along with what other people are doing, often without being asked. Adults are frequently critical of adolescents for conforming to erratic youthful fashions, while they are often

just as bound to their own conservative guidelines (why else would anyone where a necktie?). Conformity is a common and usually harmless part of everyday life; yet it can lead to complacent and even erroneous judgments. In a classic study of conformity approximately one-third of the subjects gave what they knew to be the wrong answer when four other “subjects” (actually confederates of the experimenter) gave the same wrong answer (Asch, 1952, 1955). Although frequently innocuous, conformity can be harmful when it is inappropriate.

Are Christians abusing the power of conformity when they pre-arrange for volunteers to “go forward” at an altar call in order to increase the number of non-Christians who will respond? Or are they merely being sensitive to the pressures that the non-Christian feels to conform to those who remain in their seats? Should Christians use this technique of influence? (*from Psychology and Christianity by Ronald Philipchalk, p212*)

Conformity & Culture

Researcher Gary Lee and his associates found significant differences among 122 cultures in the emphasis given to conformity. Conformity differences develop as a result of socialization of children into parental values. Parents in cultures emphasizing conformity relied more heavily on physical punishment than parents in cultures emphasizing self-reliance.

Mach Test

The “Mach Test” is a twenty-item inventory designed to reveal Machiavellian tendencies, a manipulative kind of social skill. Based on Machiavelli’s writings, the instrument purports to identify people who, under social pressure, are able to retain their composure, while others are losing control. You can get an idea of your mach score, and thus presumably your tendency to use and be influenced by social influence, at:

- **Mach Test**

Activity: Read and Reflect

We investigated conformity, and the role it plays. This will be the focus of this unit’s Learning Lab. In order to prepare for discussion this week, take a moment to consider the following resources:

- **Introduction to Social Influence**

- **Conformity AND Obedience**

Due to the pervasiveness of social influence, it cannot be overstated how important it is to understand the concepts and techniques associated with it. The purpose of these resources is to allow you to grow in your

ability to be persuasive and to recognize when tools of influence are being used on you. It will also allow you to be more mindful of what/who you are conforming to and why it is that you are doing so. If you are really adventurous you may even want to take this knowledge to help you or someone else adopt a new attitude, belief, or action.

Learning Lab Preparation

Prior to your Learning Lab, take some time to think about the following questions. You will be asked to share your thoughts in this week's Learning Lab:

- *What pressures for conformity exist in your community? On your campus?*
- *What happens to people who do not conform?*
- *Is conformity good or bad? What would society be like without conformity?*

6.3 Obedience

Obedience refers to the strongest level of social influence, the level at which an order is given and no choice is assumed. For example, we are expected to obey the law; we are not assumed to have a choice.

The study of obedience has proven somewhat unsettling for those with an optimistic view of human nature. Under orders, people have been willing to (a) subdue a helpless protesting individual with electric shock labeled extremely dangerous (Milgram, 1963); (b) administer a drug to a patient at double the recommended dosage, when the drug had not been approved by the hospital and when, contrary to regulations, the orders were given by an unfamiliar physician over the phone (Hofling et al., 1966), (c) place cute puppies in a restraining harness and give them strong electric shock (Sheridan and King, 1972). However, rather than uncovering a sadistic or evil type of individual these studies indicate that in the momentum of the situation, and under legitimate authority, people will perform acts which they would otherwise find abhorrent.

The ominous parallel with so-called “war crimes” is clear. Soldiers from many countries and in various wars have committed heinous acts of cruelty and slaughter against innocent men, women, and children. Yet they were not particularly evil or sadistic men; they were simply following orders. The research on obedience raises the chilling possibility that anyone of us would do the same thing in the same situation.

The potentially destructive power of religious authority was clearly demonstrated in 1978. In Jonestown, Guyana, more than 900 followers of religious-cult leader Jim Jones obeyed his orders and committed suicide by drinking poison.

Christian leaders need to beware of the awesome power of their position, particularly when they claim to speak as the voice of God. (*from Psychology and Christianity by Ronald Philipchalk, p. 214-215*)

Avoiding Destructive Obedience

How can you protect yourself from participating in destructive obedience? Actually, you may have already taken the first step. Growing evidence suggests that when people learn about research findings such as these, they tend to change their behavior to take this knowledge into account (Sherman, 1980). There are, however, several more active steps you can take to reduce your vulnerability to malevolent authority.

First, you can question the legitimacy of the authority. Ask yourself if the person giving the orders really has the right to command you to do what he or she is asking. Special uniforms, insignias, and titles can create an aura of authority even where none exists. For example, Brad Bushman found that 72 % of pedestrians gave change to a young man when ordered to by a woman in uniform, compared to 48 % when the woman was dressed in business clothes. Bushman found that the nature of the uniform did not even have to be related to the order being given (Bushman, 1984, 1988).

Second, ask yourself if your obedience might cause harm to someone else. Remember that even if you act under legitimate authority you are still responsible for any harm you produce.

Third, talk to others about your misgivings. This can not only strengthen your personal resolve, but it may also convince others to join you as well. In one field experiment, 21 out of 22 nurses were prepared to obey an unfamiliar physician whose order violated hospital policy and possibly endangered the patients. The nurses had no chance to consult with anyone else (Hofling et al., 1966). In a second study, however, when the nurses were given the opportunity to contact their supervisors and other nurses, only 2 out of 18 were willing to obey (Rank & Jacobson, 1977).

Milgram also demonstrated the effect of support for disobedience. In one experiment he employed two additional confederates. They posed as co-teachers who, along with the real subject, gave shocks to the "learner." One confederate refused to continue at 150 volts, the other confederate broke off at 210 volts. With this type of additional support, 90 % of the subjects refused to go all the way to the maximum shock—total obedience was reduced to 10 % (Milgram, 1974).

Finally, if you decide to defy authority, you might take a lesson from the conformity research and remember the power of calm, reasonable dissent. One of the most famous literary examples of defiance, Herman Melville's Bartleby, the Scrivener, illustrates this "gentle rebellion:"

"Bartleby," said I, "Ginger Nut is away; just step round to the Post Office, won't you? (it was but a three minute walk), and see if there is anything for me."

"I would prefer not to."

"You will not?"

"I prefer not."

I staggered to my desk, and sat there in a deep study. My blind inveteracy returned. Was there any other thing in which I could procure myself to be ignominiously repulsed by this lean, penniless wight?—my hired clerk? What added thing is there, perfectly reasonable, that he will be sure to refuse to do?

"Bartleby" - No answer

"Bartleby," in a louder tone. - No answer.

"Bartleby," I roared.

Like a very ghost, agreeably to the laws of magical invocation, at the third summons, he appeared at the entrance of his hermitage.

"Go to the next room, and tell Nippers to come to me."

"I prefer not to," he respectfully and slowly said, and mildly disappeared.

Bartleby manages to defy his employer and yet keep his job because his meek reply is so disarming. At times a more aggressive stance may be necessary, but remember, resistance is always possible. Obedience should not be blind. (*from Invitation to Social Psychology by Ronald Philipchalk*)

Activity: Read and Reflect

This unit, we learned about obedience. We saw that obedience is strongest level of social influence. This will be the focus of this unit's Learning Lab. In order to prepare for discussion this week, take a moment to consider the following resources:

- **Conformity, Compliance, and Obedience**
- **Seven Things You Didn't Know About Stanley Milgram**
- **Stanley Milgram: His Life and Work**
- **Canadian Code of Ethics for Psychologists**

- **Ethical Principles of Psychologists and Code of Conduct**

As mentioned earlier, it is not necessary to read each resource thoroughly. What is important is to gain comprehension of the importance of using

ethical guidelines when doing research on conformity, compliance, and obedience. Start to ponder how necessary is it to involve the use of deception in research. Ask yourself how you would feel if you were actually part of an experiment that was measuring compliance and you were deceived about what the researchers were actually doing? Also, while reading this information have you been able to recognize areas of your life where you are unquestionably following an authority figure? When answering questions like this I would encourage you to not be overly critical of yourself or others, rather, just notice where certain phenomena are present in your life and if you would like to do anything about it.

Learning Lab Preparation

Prior to your Learning Lab, take some time to think about the following scenario and questions. You will be asked to share your thoughts in this week's Learning Lab:

When people read about Stanley Milgram's experiments on obedience to authority, they are often puzzled at the ethics of this research. You have probably have heard of these studies before and already have some views about the appropriateness of the procedures. All psychologists follow ethical guidelines in their research established by national governing bodies (e.g., CPA, APA). At the heart of these statements about ethics are the responsibilities to: protect the subject's welfare, avoid deception, provide anonymity, and provide therapy or relief from any unintended results of the experiment. Each of these general principles applies to the Milgram studies. Do you believe that the studies could be conducted today, given what we know now about ethics and about Milgram's results?

- *Does the severity of the problem studied—in this case destructive obedience—justify more extreme steps to manipulate and deceive experimental subjects?*
- *Under what circumstances do you personally think that deceiving subjects in a scientific experiment might be ethically warranted or justified?*

6.4 Compliance

This fictitious letter, based upon actual appeals I have received, contains several examples of techniques of persuasion. Without criticizing the writer's motives, a social psychologist could identify examples of card stacking, plain folks, foot-in-the-door, and other effective procedures of persuasion that we will discuss below.

Compliance refers to an intermediate level of influence. Here we have the familiar situation where a request is made of us, but it is assumed that we have a choice;

we don't have to comply with the persuasive communication. In the letter we see the use of several techniques which have been found to increase the effectiveness of a persuasive communication:

1. **Card Stacking** is the selection of only those examples which support the proponent's argument (Mr. Smith's example is presented as if it were typical).
2. **The Band Wagon Effect** gives the impression that many other people are involved, and that everyone is doing it ("thousands of others are standing with you").
3. **A Testimonial** is a personal example of the successful application of the proponent's argument (Mr. Smith provides a concrete example of what might be expected).
4. **Plain Folks** refers to the association of the person or product with simple ordinary people ("this poor country boy").
5. **The foot-in-the-door technique** is the attempt to get you to comply in a small way, knowing that this greatly increases your chance of complying to a larger request (in our example reading the letter, using the "prayer square," or sending a very small donation are small requests which could be followed up with requests for larger gifts).
6. **Name Calling** is a technique which persuades people to reject something which they may know nothing about ("the forces of evil").
7. **Transfer** is the association of a person or product with something that people already feel strongly about ("God," "family," "children").

These and other techniques have been shown to greatly increase the effectiveness of a persuasive communication. They are often quite apparent in appeals by religious leaders for financial support. Should Christians use these techniques of influence? (*from Psychology and Christianity by Ronald Philipchalk, p. 211, 213*)

Activity: Read and Reflect

In this Topic we studied compliance and its use as a tool of influence. This will be the focus of this unit's Learning Lab. In order to prepare for discussion this week, take a moment to consider the following resources:

- Social Media and Its Stark Influence on Society
- Cults: Questions and Answers

The purpose of the information being shared in this topic and through these resources is to help you recognize who and/or what you are allowing to be an influence in your life? Asking the question, “Who is teaching me how to be influential and what direction is that influence taking me in?” can be invaluable in helping you examine how you are spending your time and if you are truly satisfied in the direction of your life. Remember, tools of influence are just that – tools. Any tool can be used towards benefit or detriment, it just depends on how it is being applied.

Learning Lab Preparation

Prior to your Learning Lab, take some time to think about the following questions. You will be asked to share your thoughts in this week's Learning Lab:

- *Have you ever been taught a sales technique in your job experience? If so, explain...*

If you have not been taught a sales technique, you certainly have experienced many as a consumer. Can you give an example? Here is one:

One of the standard ways that door-to-door salespersons will try to get you to buy something is the so-called foot-in-the-door technique: They will ask you to do them a small favor. Having done so, you will have to justify your own behavior to yourself by thinking nice things about the seller. Hence, you are more likely to comply when they ask you to sign on the dotted line.

Assessment

While there is no “formal” assignment that you will be responsible for submitting for Unit 6, you will be expected to participate in discussion during your Learning Lab. Your facilitator will be providing a participation mark based on your contributions. Below is some information to consider prior to attending your Learning Lab:

Learning Lab Preparation

Your facilitator will be providing a participation mark based on your contributions for this unit. Below is some information to consider prior to attending your Learning Lab:

Active participation in group exercises, reflection, and critical discourse is an essential component of this course. You are expected to show respect for all members of the course, both in your speech and actions. Contribute by actively observing and listening, raising thoughtful questions, examining relevant issues, building on others' ideas, analyzing and evaluating the group's thinking, synthesizing key points, and expanding

the group's perspectives. Take care not to dominate a conversation, giving space for others to speak. When in small groups help maintain the focus, flow, and quality of conversations, and take the initiative to invite others (particularly those who are quiet) to speak.

Rubric for Participation in Learning Labs

Emerging (0-64%)	Developing (65-89%)	Mastering (90-100%)
Never to almost never: Demonstrates active listening (as indicated by disengaged body language and no to rare comments that build on others' remarks), Initiates any contributions in class or small groups, Makes insightful or constructive comments, Helps maintain a supportive space for others to speak.	Sometimes to fairly often: Demonstrates active listening (as indicated by somewhat to often engaged body language and comments that build on others' remarks), Initiates a contribution at least once in a class or small group discussion; Makes insightful or constructive comments, Helps maintain a supportive space for others to speak.	Very often to nearly always: Demonstrates active listening (as indicated by fully engaged body language and comments that build on others' remarks), Initiates more than one contribution in a class or small group discussion, Makes insightful or constructive comments, Creates a space for others to speak and takes initiative to include others.

Checking your Learning

Before you move on to the next unit, check that you are able to:

- Define the key terminology associated with social influence, social cognition, and on attitudes, behaviour, and effective communication.
- Describe why individuals conform to others' behaviours, how individuals and groups can influence behaviours, and how we form first impressions and how these impressions influence us.
- Apply your knowledge of the bystander effect to ensure that you will be helped if you are in an emergency, of social cognition to help overcome prejudice and discrimination, and of the central route to describe how a message should be designed.

- Analyze whether guards who participate in abuse are inherently bad people, or if their behaviour is the product of social influences and whether people who commit discriminatory acts are necessarily prejudiced.
- Describe how behaviours influence attitudes in terms of cognitive dissonance theory.

Chapter 7

Social Psychology - Part 2

Overview

In this unit, we continue to build upon Unit 6. No single factor has more impact on shaping the quality and direction of your life over virtually every aspect of your existence than relationships. In a way, everyone is a social psychologist. People constantly form ideas/opinions about why a person or a group of people are acting the way they are. Social psychology is similar to what people find themselves naturally doing except it uses scientific tools to study these hypotheses (the ideas/opinions). Social psychologist are primarily interested in examining the different ways that individual's effect groups of people and the way groups of people effect individual's. In this unit you will be introduced to some historical studies and main concepts in this field. Topics covered in this chapter include social influences on behaviour, social impressions and judgements, the relationship between attitudes and behaviour, and effective communication. In Unit 6 (Part 1) you looked at attributes and actions, conformity, obedience, and compliance.

Please note that this unit will also examine prejudice and aggression. Although these topics are not specifically covered in the textbook, they are important to social psychology, attraction, and altruism.

Topics

This unit is divided into the following topics:

1. Prejudice and Aggression
2. Attraction and Altruism

Learning Outcomes

By the end of this unit, student's will be able to:

- Define the key terminology associated with social influence, social cognition, and on attitudes, behaviour, and effective communication.
- Describe why individuals conform to others' behaviours, how individuals and groups can influence behaviours, and how we form first impressions and how these impressions influence us.
- Apply your knowledge of the bystander effect to ensure that you will be helped if you are in an emergency, of social cognition to help overcome prejudice and discrimination, and of the central route to describe how a message should be designed.
- Analyze whether guards who participate in abuse are inherently bad people, or if their behaviour is the product of social influences and whether people who commit discriminatory acts are necessarily prejudiced.
- Describe how behaviours influence attitudes in terms of cognitive dissonance theory.

Activity Checklist

Here is a checklist of learning activities you will benefit from in completing this unit. You may find it useful for planning your work:

Read and Reflect

- Read *Krause et al. (2021). Revel for An Introduction to Psychological Science, 3rd Canadian Edition*
- Review *Unit 7 - Slides*
//todo #5
- These will be the same slides from Unit 6 as both unit's cover Chapter 13 content.

Please note, the slides are intended to supplement the information found in your textbook. If you are having trouble viewing them, they can also be downloaded by scrolling to the bottom of the screen and clicking on the "Unit 7 - Slides" link.

- This activity is an opportunity to reflect on what you have been taught about racism and discrimination and attitudes of hate and violence. You will be able to ponder the ways in which your parent(s)/primary caregiver(s) addressed these topics as you were growing up in light of some current parental directions and en-

couragements regarding these topics. You'll also be familiarized with some research considerations around the topic of video game violence and TV violence and their direct effects on anti-social attitudes and behaviours.

- In this activity you can gain more insight into what is it that potentially makes you attractive to someone else and you attractive to others. One of the components influencing this is the structure of a person's face. Much research has been done on this and the first article will outline some of the ways your face has shaped your social experiences. The second article adds to this discussion by looking at how willing people are to acknowledge the role of attractiveness in their own thought processes and decision-making. Next, the topic shifts to altruism. The first of these articles proposes that only reciprocal altruism exists. I would encourage you to read this article through the lens of, "Is it truly possible to know another's motivation or intention?" Lastly, Random Acts of Kindness is a website that offers great resources and opportunities to increase kindness in your, and others, lives.

Key Terms Quiz

NOTE: Units 6 & 7 both covered content from Chapter 13 in your textbook - this quiz will also cover terms from both units.

- Practice quiz to assess how well you know key terms from Chapter 13.
- Not for formal evaluation.

Learning Lab Preparation

- Each topic will provide a question or scenario for you to consider prior to attending your Learning Lab. Be sure to carefully consider each prompt as you will be expected to contribute to the group discussion.

Resources

Here are the resources you will need to complete this unit:

- Krause, M., Corts, D., Smith, S. C., & Dolderman, D. (2018). *Revel for An Introduction to Psychological Science, 2nd Canadian Edition*. Pearson Ed.
- Other resources will be provided online.

7.1 Prejudice and Aggression

Prejudice & Religion

Some of the first research to study the effects of religion (Christianity) investigated its role in prejudice. The consistent finding of this line of study was that the more religious people were, the more prejudiced they were likely to be Allport and Kramer (1946). Because racial prejudice is so clearly contrary to religious teaching, Gordon Allport called this Religion's Grand Paradox. In the area of racial prejudice in North America, Christianity did not appear to improve behavior.

Religion's Grand Paradox was gradually resolved as researchers refined their definition of religious. When the apparently prejudiced church attenders were divided into those for whom religion served a social function and was a means to an end (extrinsic religious orientation) and those for whom religion was an integral part of their lives and an end in itself (intrinsic religious orientation), it was the extrinsics who had raised the prejudice scores of the entire group. The intrinsics were found to be even less prejudiced than the non-attenders. Apparently an intrinsic religious orientation has a beneficial effect on behavior, at least on racial prejudice (Allport, 1959).

Sports as Catharsis?

The idea that relieving emotional tension causes a purging of pent-up energy is called the catharsis hypothesis. According to Aristotle—who first proposed the concept of catharsis—even viewing powerful emotional events can be cathartic. Thus we should be able to reduce our aggressive tendencies by watching others act out their aggression, as well as by acting aggressively ourselves.

Research, however, does not lend much support to this common-sense idea. For example, Robert Arms and his associates report that hockey, football, and wrestling fans exhibit more aggression after viewing the event than before (Arms et al., 1979; Goldstein & Arms, 1971; Russell, 1983) (see Figure 11.1). Arthur Patterson (1974) found that high school football players were more aggressive after the season than before it. And Dane Archer and Rosemary Gartner report that a nation's murder rate tends to jump after a war is over (Archer & Gartner, 1976).

Compensatory Machoism

Marshall Segall and his colleagues point out that cultures typically expect men to be macho—that is, to behave in ways that indicate their strength, virility, and willingness to confront an adversary. But Segall and his colleagues suggest that biological mechanisms interact with complex cultural processes to produce a kind of “compensatory machoism.” Very briefly, the elements in this process are these:

1. All societies have some division of labor by sex, resulting in sex-linked roles. For example, females do most of the child rearing in most societies

and virtually all of it in some. Boys have less opportunity than girls to learn their roles by modeling because they are raised by women and have comparatively little contact with adult males.

2. For various historical and environmental reasons, fathers in some societies are more likely to be absent. Paradoxically, in these societies young males are expected to develop a particularly distinct male identity. These young males are driven—consciously or unconsciously—to display “manly” behavior and avoid appearing “womanly” at all costs.
3. Some societies recognize this need and provide initiation ceremonies that serve to “stamp in” masculinity for boys who need it because of inadequate opportunity to acquire it in childhood. These ceremonies affirm the young male’s adult masculinity.
4. Adolescent males in societies without initiation ceremonies may exaggerate their biological tendencies toward aggression in an attempt to assert their own masculinity.

Segall and his associates explain, “We suggest that in societies that have the preconditions requiring a stamping-in of masculinity, but which don’t achieve this through initiation ceremonies or other institutionalized practices, adolescent males will try on their own to assert their masculinity” (p. 281). The Segall group calls the resultant aggression compensatory machoism. Compensatory machoism is the display of behavior intended to identify oneself with the cultural image of masculinity. The resulting aggression is rooted not in anger but in a “felt need to escape from womanliness and to mark one’s masculine gender” (p. 281).

Can you think of a cultural group in North America that seems to illustrate this process particularly well?

Marshall Segall and his colleagues suggest that many young black American males illustrate this process. Social conditions (unemployment, educational deficits, racial discrimination) contribute to a prevalence of broken homes with female-headed households. Young men in these conditions attempt to assert their masculine identity through compensatory machoism. They are tough, independent, and violently aggressive. As a result, murder is their leading cause of death. A black man stands a 1-in-21 chance of being murdered in his lifetime, compared with 1 in 131 for white men and 1 in 369 for white women. The Segall group quotes one young black male who says that in urban ghettos “*You must walk angry, talk angry, think angry . . . You’re either a chump or a champ . . . You’re macho or gay.*” (*adapted from Invitation to Social Psychology by Ronald Philipchak*)

Empathy & Aggression

Several researchers suggest that empathy and concern for others may be important tools for reducing aggression. Prejudice, discrimination, and violent sexual aggression flourish when we dehumanize a victim. If a policeman is a “pig,” a homosexual a “fag,” or a woman a “playmate,” “pet,” or “bitch,” it is easier to excuse and even justify our hostile actions. Empathy reverses this process by making us identify with a potential victim. For example, Ken-Ichi Ohbuchi and his colleagues found that Japanese students gave less shock to a “victim” if the victim first aroused subjects’ empathy by disclosing information about herself or by expressing her fear of shock. (*adapted from Invitation to Social Psychology by Ronald Philipchalk*)

Conflict Resolution & Culture

Fumie Kumagai and Murray Straus report significant differences in the way conflicts are resolved between marital partners in different cultures. Using the “Conflict Tactics Scale,” these researchers asked high school seniors in, and the United States how their parents settled disputes. Violent means of “resolution” were most common in American couples, followed by Japanese, and then Indian couples.

Activity: Read and Reflect

The following articles are intended to deepen your understanding of discrimination, racism, hate and violence. Hopefully this information will cause you to consider how you’ve been informed about these topics. Additionally, it may be valuable, in light of the research, to consider how much hate and violence you have exposure to through gaming and TV and how this is impacting your attitude and behaviour towards other people. Click on the articles below:

- [Discussing Hate and Violence with Children](#)
- [Resolution on Violent Video Games](#)
- [Television and Video Violence](#)

Learning Lab Preparation

Prior to your Learning Lab, take some time to think about the following questions. You will be asked to share your thoughts in this week’s Learning Lab:

- *If removing parts of the brain reliably reduced aggression, do you think violent criminals should be forced to have this operation?*
- *Should violent content be removed from video games,*

movies, and TV (why or why not)?

7.2 Attraction & Altruism

Why do I like you? Let me count the ways:

- We often like people for whom we have suffered.
- We like people more after we have done small favours for them.
- We like people best whose (accidentally overheard) descriptions of us begin on a negative note and end with a positive tone.
- We like people who convert to our point of view better than we like people who have agreed with us all along.
- We like highly competent people better after they have committed a blunder.

Culture & Attraction

The characteristics that are attractive in the opposite sex, as well as the importance of physical attractiveness, are different in different cultures. Deborah Stiles and her colleagues found that Mexican adolescents valued liking children, helping others, high intelligence, and inner goodness and honesty in their opposite-sex ideal. American adolescents gave higher ratings to having a lot of money, being fun, popular, good looking, and sexy. Karen Dion and her colleagues found that physical attractiveness is more important in a culture where individualism (Canadian) rather than collectivism (Chinese) is valued.

David Buss and 49 collaborators in 33 countries asked young men and women (average age 23 years) about the attributes they looked for in potential mates. The researchers found many differences among cultures. The most pervasive difference they found was the emphasis given to “traditional” versus “modern” attributes. Young people looking for a mate in, and place great value on the traditional attributes of chastity, home and children, domestic skills, and providing for the family. At the other extreme, in the , , , and , young people looking for mates did not consider these attributes very important.

(Canadian and American values were in between these extremes).

American young people differed from the international average by placing a higher value on a college degree, earning capacity, heredity, and “an exciting personality.” They placed a relatively low value on housekeeping skills, and intelligence (Buss, 1990). Without this kind of information it would be easy for

us to assume that people in other cultures look for the same qualities in their potential mates as we do. (*adapted from Understanding Human Behavior by Ronald Philipchalk*)

Culture & Altruism

Ronald Johnson and George Danko (1989) report significant differences in altruism between cultures in , , , the , and . Benjamin Colby reports that differences in altruism between students from 133 different cultures were predictive of their ability to adapt to university culture (altruistic students adapted better). In one study Wegner and Crano found that racial factors affected helping behavior. An experimenter who was apparently engrossed in examining a deck of 500 computer cards approached naive subjects. Approximately one step away from the subject, the experimenter “accidentally” dropped the entire deck. Blacks helped whites 17 percent of the time but they helped blacks 75 percent of the time. Whites helped both whites and blacks 44 percent of the time.

(*Cross-cultural research seems particularly relevant to the topic of helping in that Jesus' point in the parable of the “Good Samaritan” was that cultural enemies, Jews and Samaritans, should love and help each other*)

Altruism & Religion

The study of altruism or helping behavior also yields some interesting results with regard to the effects of religion. Research has consistently found that only a minority of people will stop to help someone who is clearly in need, especially if they are in a hurry themselves. Darley and Batson (1973) found that this was true even for seminary students, and *even when they were on their way to give a talk on the Good Samaritan*. Furthermore, they found that the most “religiously devout” were the least sensitive to the victim’s needs; when they did offer help, they often forced it on the victim even when he or she insisted on being left alone. Batson and Gray (1981) also found that the religiously devout tended to offer help when it was not wanted. Apparently if religion makes a difference it is not always good.

On the other hand, it should be noted that although only a minority of the seminarians stopped to help, they were *all* on their way to help the experimenter by giving a talk. Thus it was not a matter of helping or not, but a choice between which to help. If they stopped, they were led to believe, they would be late, and might endanger their ability to be of help to the experimenter.

In another setting, Perry London (1970) found Christian teaching often played a role in the justification given by those who helped hide Jews from the Nazis during World War II. Further research is needed before the role of religiousness in helping behavior can be determined. (*adapted from Psychology and Christianity by Ronald Philipchalk, pp. 219-220*)

Activity: Read and Reflect

What is it that makes you think that someone is attractive, kind, evil, competent, upset, and the like? These resources will look at some of the factors that contribute to how you judge others and yourself. The first article outlines some of the ways your face has shaped your social experiences. The second article adds to this discussion by looking at how willing people are to acknowledge the role of attractiveness in their own thought processes and decision-making. Next, the topic shifts to altruism. The first of these articles proposes that only reciprocal altruism exists. Again, I would encourage you to read this article through the lens of, “*Is it truly possible to know another’s motivation or intention?*” Lastly, Random Acts of Kindness is a website that offers great resources and opportunities to increase kindness in your, and others, lives. I encourage you to participate in some of these activities to see how it makes you feel. Click on the links below:

- Facial Attractiveness
- Survival of the Prettiest
- Altruism in Advertising
- Random Acts of Kindness

Key Terms Quiz

In order to review some of the major terms from Chapter 13 in your textbook, take the following unmarked quiz. Although you will not be evaluated on these terms, they will assist you in the assessments for this course. Type the correct answer in the boxes below:

Learning Lab Preparation

Prior to your Learning Lab, take some time to think about the following questions. You will be asked to share your thoughts in this week’s Learning Lab:

- *What do you think contribute to you being able to quickly judge whether or not you think someone is attractive?*
- *Some social psychologists believe that there is always a reward for helping and that this motivates people to help. In other words, people never help without expecting a reward of some kind (either in this life or in the next). What do you think?*

Assessment

While there is no “formal” assignment that you will be responsible for submitting for Unit 7, you will be expected to participate in discussion during your Learning Lab. Your facilitator will be providing a participation mark based on your contributions. Below is some information to consider prior to attending your Learning Lab:

Learning Lab Preparation

Your facilitator will be providing a participation mark based on your contributions for this unit. Below is some information to consider prior to attending your Learning Lab:

Active participation in group exercises, reflection, and critical discourse is an essential component of this course. You are expected to show respect for all members of the course, both in your speech and actions. Contribute by actively observing and listening, raising thoughtful questions, examining relevant issues, building on others’ ideas, analyzing and evaluating the group’s thinking, synthesizing key points, and expanding the group’s perspectives. Take care not to dominate a conversation, giving space for others to speak. When in small groups help maintain the focus, flow, and quality of conversations, and take the initiative to invite others (particularly those who are quiet) to speak.

Rubric for Participation in Learning Labs

Emerging (0-64%)	Developing (65-89%)	Mastering (90-100%)
Never to almost never: Demonstrates active listening (as indicated by disengaged body language and no to rare comments that build on others' remarks), Initiates any contributions in class or small groups, Makes insightful or constructive comments, Helps maintain a supportive space for others to speak.	Sometimes to fairly often: Demonstrates active listening (as indicated by somewhat to often engaged body language and comments that build on others' remarks), Initiates a contribution at least once in a class or small group discussion; Makes insightful or constructive comments, Helps maintain a supportive space for others to speak.	Very often to nearly always: Demonstrates active listening (as indicated by fully engaged body language and comments that build on others' remarks), Initiates more than one contribution in a class or small group discussion, Makes insightful or constructive comments, Creates a space for others to speak and takes initiative to include others.

Checking your Learning

Before you move on to the next unit, check that you are able to:

- Define the key terminology associated with social influence, social cognition, and on attitudes, behaviour, and effective communication.
- Describe why individuals conform to others' behaviours, how individuals and groups can influence behaviours, and how we form first impressions and how these impressions influence us.
- Apply your knowledge of the bystander effect to ensure that you will be helped if you are in an emergency, of social cognition to help overcome prejudice and discrimination, and of the central route to describe how a message should be designed.
- Analyze whether guards who participate in abuse are inherently bad people, or if their behaviour is the product of social influences and whether people who commit discriminatory acts are necessarily prejudiced.
- Describe how behaviours influence attitudes in terms of cognitive

dissonance theory.

Chapter 8

Health

Overview

In Unit 8, you will examine what factors contribute to one's general health. In Unit 9 you will gain more insight into stress and coping. Together, Units 8 and 9 span information from Chapter 14 in your textbook, giving you a broad overview of the field of health psychology.

Health psychologists study both positive and negative impacts that humans' behaviour and decisions have on their health, survival, and well-being. The need for this field has increased considerably over the 20th century, as most premature deaths are attributable to lifestyle factors. Over this chapter you will gain knowledge about the interaction of all the levels of analysis (biological, psychological, sociocultural, and spiritual) with regards to your health. You will learn about the biological/physiological responses to stress and how a poor response to stress leaves a person more vulnerable to illness and slowing recovery time from illness and injury. How having at least some degree of control helps people with coping and outlook. When control is threatened, people use compensatory responses, such as detecting order within random images. You will also be informed that coping using a positive or negative style is related to personality (e.g., optimism versus pessimism). And, that positive coping increases resilience—the ability to recover from adversity, and even benefit from the experience, as is the case with post-traumatic growth. Whereas, coping via negative affectivity and pessimism can have both psychological and physiological disadvantages. Lastly, you'll be advised as to how religion/spirituality, relaxation techniques, meditation, and biofeedback actually help people cope with stress and problems which can lead to human flourishing.

Topics

This unit is divided into the following topics:

1. Biology of Emotion
2. Communicating Emotion
3. Experiencing Emotion

Learning Outcomes

By the end of this unit, student's will be able to:

- Define, and apply, the key terminology related to health psychology, stress and illness, and coping and well-being.
- Explain how genetic and environmental factors influence obesity, how physiological reactions that occur under stress, and how the immune system is connected to stress responses.
- Apply your knowledge of persuasion and health to examine the effectiveness of different types of cigarette warnings, and of the beneficial effects of optimism to help you reframe stressful situations as positive opportunities.
- Analyze whether media depictions of smoking affect smoking in adolescents, the claim that ulcers are caused by stress, and whether activities such as relaxation techniques, meditation, and biofeedback actually help people cope with stress and problems.
- Describe how control over the environment and positive and negative styles of coping influences well-being.

Activity Checklist

Here is a checklist of learning activities you will benefit from in completing this unit. You may find it useful for planning your work:

Read and Reflect

- Read *Krause et al. (2021). Revel for An Introduction to Psychological Science, 3rd Canadian Edition*

- Review *Unit 8- Slides*

[CLICK HERE](#)

An Introduction to Psychological Science - Chapter 14 - Health, Stress, and Coping

Spiritual Orientations

- Performance-Based
 - I must do right to be accepted

- If people knew what I was really like they wouldn't like me
 - Life is based in fear
 - Need external praise
 - Can't accept criticism
 - Always have to be busy
 - Have to be in control and have it together
 - Always wants rules
 - Trust-Based
 - I am accepted because of who I am
 - I know that I'm a good person, if people knew me they'd like me
 - Life is based in love
 - Internally secure
 - Welcome criticism
 - Enjoys rest
 - Observes and appreciates the use of multiple talents
 - Delights in freedom
- True or False?
- T F 1. The polygraph has proved to be extremely effective in detecting lies.
 - T F 2. Some emotional responses involve no conscious thinking.
 - T F 3. Introverts are superior to extraverts at reading others' emotions.
 - T F 4. Facial expressions associated with emotions such as happiness and fear are the same the world over.

- T F 5. Occasionally blowing off steam seems to reduce anger and aggression in the long run.
- T F 6. Kidney dialysis patients report being just as happy as healthy non-patients.
- T F 7. Compared with others, pessimists are more than twice as likely to develop heart disease.
- T F 8. Writing about personal traumas in a diary reduces stress and the likelihood of health problems during ensuing months.
- T F 9. Those who do not exercise are twice as likely as exercisers to report being not “too happy.”
- T F 10. Religious faith and health show a strong positive correlation.

Modules

14.1: Behaviour and Health

14.2: Stress and Illness

14.3: Coping and Well-Being



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Learning Objectives

- Know the key terminology related to health psychology.
- Understand how genetic and environmental factors influence obesity.
- Apply your beliefs about obesity to better understand sources of

prejudice and stereotyping.

- Analyze whether media depictions of smoking affect smoking in adolescents.

Health Psychology

- Health psychologists

- Tobacco use, alcohol, obesity, inactivity

Smoking (1 of 2)

Table 14.1 Health Costs of Tobacco Use

- Tobacco use causes an estimated 5 million deaths worldwide each year.
- Cigarette smoking is the leading preventable cause of death in North America.
- One in five Canadian deaths is due to cigarette smoking.
- Close to 1000 Canadians die each year as a result of second-hand smoke.

Source: Based on CDC, 2009a; Rehm et al., 2006; Statistics Canada, 2012a.



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Slide showing - Health Costs of Tobacco Use Smoking

- Efforts to prevent smoking
 - Non-smoking laws
 - Warnings on packages
- Working the Scientific Literacy Model: Media Exposure and Smoking
 - What do we know about media influences on smoking?
 - Smoking in movies has declined, but still present
 - How can science help us analyze the effects of smoking in the movies?
 - Can we critically evaluate this evidence?
 - Correlations exist
 - * Number of explanations

- Why is this relevant?
 - Cigarette-related illnesses

Obesity

- “Freshman 15”
- 24% of Canadians are obese
- Defining healthy weights and obesity
 - Body mass index (BMI) (p. 534)

- Weight gain
 - * Positive energy balance

Genetics and Body Weight

- Genetic contribution to weight
 - 50-90%
- Set point (p. 534)
 - 10-20% range in weight
 - Theory challenged

The Sedentary Lifestyle

- How we spend our time
 - Television
 - Home entertainment = sitting and snacking
 - Children indoctrinated into this lifestyle

Social Factors

- Children influenced by parents
- Media

Psychology and Weight Loss

- Positive emotion
- Challenges for maintaining weight loss
 - Cues
 - Dieting reinforces cravings

Poverty and Discrimination

- Less access to healthcare
- Lack of control

- Magnified by stress
- Poorer diets
- Discrimination
 - Uncontrollable and unpredictable
 - Increased blood pressure
 - Unhealthy behaviours

Family and Social Environment

- Interpersonal relationships
 - Social Resilience (p. 537)
 - Social isolation
 - * As great a risk as smoking, obesity, and high blood pressure
- Married couples tend to live longer
 - Men enjoy more health benefits
- Marriage is also a large source of stress
 - Children

Social Contagion

- Social contagion (p. 538)
 - Food consumption
 - Weight loss
 - Smoking
- National Heart Institute
 - 1948 study tracking 15,000

Learning Objectives

- Know the key terminology associated with stress and illness.
- Understand the physiological reactions that occur under stress.
- Understand how the immune system is connected to stress responses.
- Apply a measure of stressful events to your own experiences.
- Analyze the claim that ulcers are caused by stress.

Stress

Table 14.2 Life Stress Inventories for the General Adult Population and for University Students

Life Events Scale (Holmes & Rahe, 1967)	
RATING	ITEM
100	Death or major illness of a loved one
73	Parental divorce
65	Marital problems
63	Going to jail
53	Injury or illness to the self
50	Getting married
47	Being fired from work
45	Retiring
40	Pregnancy
39	Difficulty with sexual functioning
39	Addition of a new family member
38	Financial hardship
36	Career/occupation change
35	Spousal arguments
31	High mortgage payment
29	Child moving away from home
28	Notable personal achievement
26	Beginning or ending of school
25	New living conditions
23	Trouble with work supervisor/boss
20	Change or adjustment in residence situation
20	Changing schools
19	Change in recreation activity
16	Change in sleep habits/duration
15	Change in diet
13	Vacation
11	Minor violations of the law (e.g., traffic ticket)
Total	

Source: Based on Holmes, T. H. & Rahe, R. H. (1967). The social readjustment rating scale. *Journal of Psychosomatic Research*, 11(2), 213–221.

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Slide showing - Life Stress Inventories for the General Adult Population and for University Students

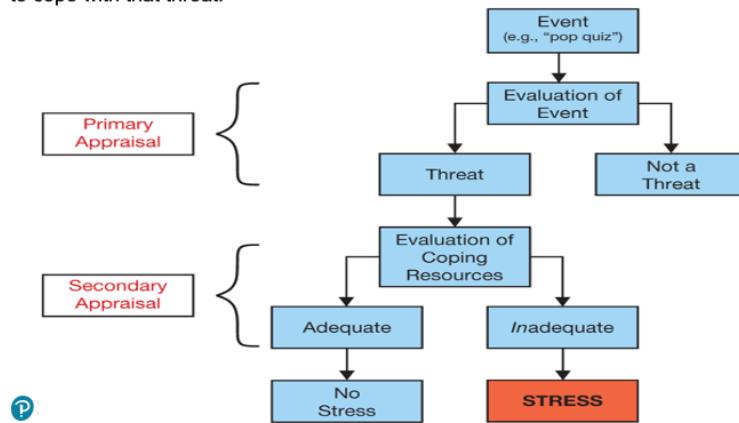
What Causes Stress?

- Individual differences in stress response
- Appraisal (p. 541)
- Primary appraisal
- Secondary appraisal

What Causes Stress? (2 of 2)

Figure 14.3 The Cognitive Appraisal Theory of Stress

The cognitive appraisal theory of stress involves two steps: (1) an evaluation of whether a stimulus or event is a threat, and (2) whether you have the resources to cope with that threat.

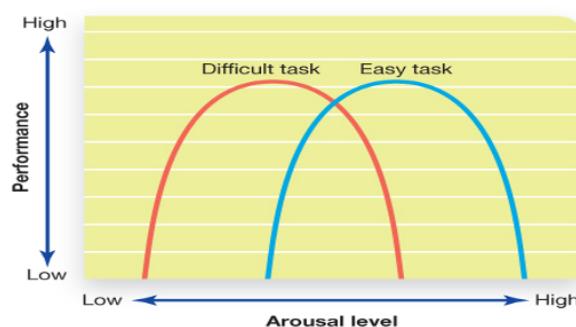


Slide showing - The Cognitive Appraisal Theory of Stress

Stress and Performance

Figure 14.5 Arousal and Performance

Performance is related to at least two critical factors—the difficulty of the task and the level of arousal/stress while it is being performed. For easy tasks, moderately high arousal helps; for difficult tasks, lower levels of arousal are optimal.



Source: Ciccarelli, S., & Noland White, J. (2012). *Psychology* (3rd ed.). Boston: Prentice Hall, p. 39. Copyright © 2012. Printed and electronically reproduced by permission of Pearson Education, Inc., Upper Saddle River, New Jersey.

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Slide showing - Arousal and Performance of Stress

Physiology of Stress

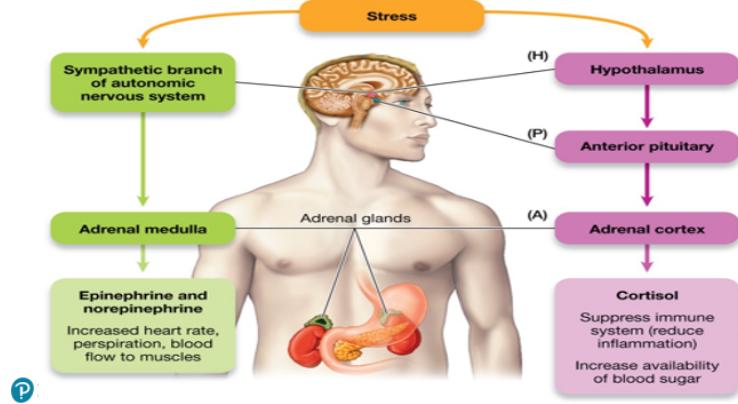
- Fight-or-flight response (p. 543)

- General adaptation syndrome (GAS) (p. 543)
 - Alarm reaction
 - Resistance
 - Exhaustion

The Stress Pathways

Figure 14.6 Stress Pathways of the Body

The stress pathways of the body include the autonomic nervous system and the HPA axis. Both systems converge on the adrenal glands. The autonomic response involves stimulation of the adrenal medulla by the sympathetic nervous system, resulting in the release of epinephrine and norepinephrine—chemicals that stimulate the fight-or-flight response. Activity of the HPA axis results in stimulation of the adrenal cortex, which releases cortisol into the bloodstream.



Slide showing - Stress Pathways of the Body

Oxytocin: To Tend and Befriend

- Tend-and-befriend response
 - Oxytocin (p. 595)
 - More women than men

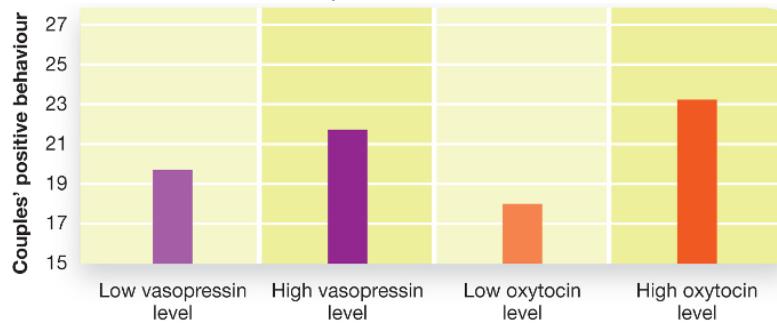
Working the Scientific Literacy Model: Hormones, Relationships and Health

- What do we know about hormones, relationships and health?
 - Social events and relationships can bring joy, but also be very stressful
 - * Oxytocin and vasopressin
- How can scientists explain connections between hormones, relationships and health?

Working the Scientific Literacy Model: Hormones, Relationships and Health (2 of 3)

Figure 14.7 Relationship Quality Is Related to Physiological Responses

Higher oxytocin and vasopressin levels are associated with positive social interactions between married couples.



SOURCE: Republished with permission of Elsevier Science, Inc., from Gouin, J.-P., Carter, C. S., Pournajafi-Nazarloo, H., Glaser, R., Malarkey, W. B., Loving, T. J., et al. (2010). Marital behavior, oxytocin, vasopressin, and wound healing. *Psychoneuroendocrinology*, 35(7):1082–1090. Permission conveyed through Copyright Clearance Center, Inc.

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Slide showing - Relationship Quality Is Related to Physiological Responses

- Can we critically evaluate this evidence?
 - Need better understanding of oxytocin and vasopressin

- Why is this relevant?
 - Psychological stress involved with healing

Stress, Immunity, and Illnessd

- Psychoneuroimmunology (p. 547)
 - Final exams and illness

Stress, Personality, and Heart Disease

- Coronary heart disease (p. 547)
 - Chronic stress

- Damage to arteries
 - * Trigger inflammation

- * Stress increases inflammation

- Type A and Type B personalities (p. 548)
 - Hostility and anger

- Anxiety and depression

Stress, Food, and Drugs

- Preference for sweet and fatty foods when stressed
 - Link to cortisol
 - Other species
 - Dopamine reward system
 - Anticipatory?

Stress, the Brain, and Diseases

- Acquired-immune deficiency syndrome (AIDS)
 - Stress impedes medicine
 - Can worsen conditions

- Cancer

- Stress affects progression

MYTHS IN MIND: Stress and Ulcers

- Most ulcers caused by
 - Bacterium called Helicobacter pylori
 - Stress worsens symptoms
 - * Slows healing

Learning Objectives

- Know the key terminology associated with coping and well-being.
- Understand how control over the environment influences coping and outlook.
- Understand positive and negative styles of coping.
- Apply your knowledge of the beneficial effects of optimism to help you reframe stressful situations as positive opportunities.
- Analyze whether activities such as relaxation techniques and meditation actually help people cope with stress and problems.

Coping

- Coping (p. 552)
 - Coping approaches
 - Problem-focused
 - Emotion-focused

Positive Coping Strategies

- Positive psychology (p. 552)

- Effects of positive emotions
 - * Broaden attention

* Autonomic nervous system

Optimism and Pessimism

- Optimism (p. 552)
- Pessimism (p. 552-553)
- Pessimistic explanatory style (p. 553)
- Negative affectivity (p. 553)
- Correlations with health

Resilience

- Resilience (p. 554)

• Viktor Frankl

- Post-traumatic growth (p. 554)

Meditation and Relaxation

- Meditation (p. 554)
 - Focused attention/open-monitoring
 - Mindfulness-based stress reduction (p. 555)
 - Integrated mind-body training

PSYCH @ Church

- Religious practice and life expectancy
 - Correlational
 - Many explanations
 - Coping and well-being

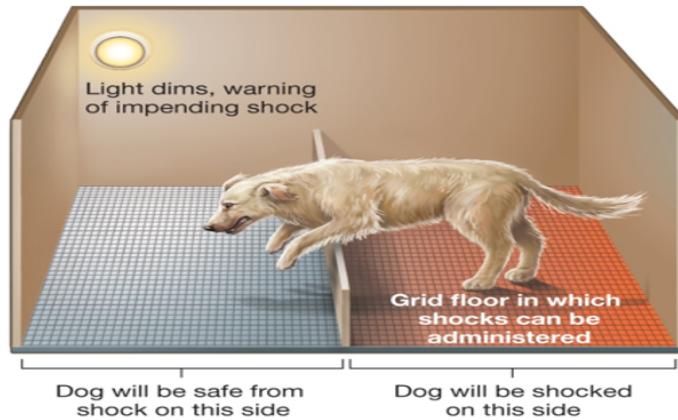
Exercise

- Short-term effects on cognition
 - Brain-derived neurotrophic factor (BDNF) (p. 557)
 - Cardiovascular exercise
- Long-term effects

Perceived Control

Figure 14.9 The Learned Helplessness Procedure

In Seligman and Maier's study, dogs that could avoid a painful shock would quickly learn to do so. Conversely, dogs that initially learned they could not avoid a shock remained passive when the opportunity to do so was given. The acquired failure to avoid or escape unpleasant circumstances that are perceived as uncontrollable is referred to as learned helplessness.



Slide showing - The Learned Helplessness Procedure

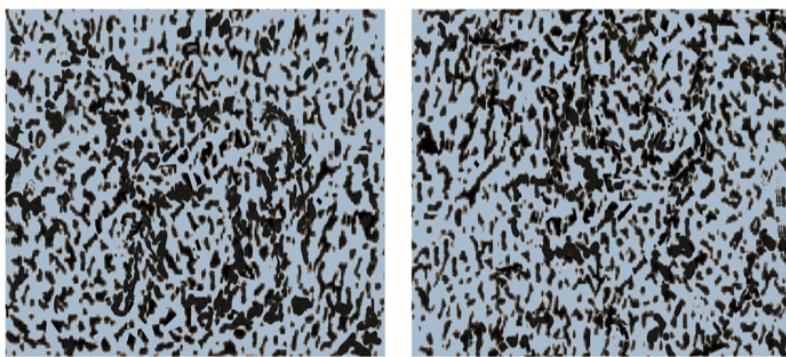
Working Scientific Literacy Model: Compensatory Control and Health

- What do we know about how people cope with seemingly random events?
 - Randomness can create anxiety
 - Compensatory control (p. 558)
- How can scientists explain compensatory control?

Working Scientific Literacy Model: Compensatory Control and Health (2 of 3)

Figure 14.10 Seeing Images Where There Are None

Do you see a figure in the image on the left? You may see a figure resembling a horse. What about on the right? There is no discernible image intended for this image. Psychologists have found that individuals who feel as though they lack control are more likely to detect patterns in the image at right than are people who feel a greater sense of control (Whitson & Galinsky, 2008).



Slide showing - Seeing Images Where There Are None

- Can we critically evaluate this evidence?
 - Real-world lack of control has greater consequences
- Why is this relevant?
 - Sense of control affects outlook on world and affects well-being
 - OCD

Note : The slides are intended to supplement the information found in your textbook. If you are having trouble viewing them, they can also be downloaded by scrolling to the bottom of the screen and clicking on the “Unit 8- Slides” link.

- What do you think, could you beat a lie detector device? This activity will allow you to delve more deeply into the physiological aspects of human emotion (though, cognitions and behaviours do influence physiological processes) and how they can be monitored using a polygraph machine.
- In this activity you will learn about the many ways you communicate non-verbally. The first article talks about how much communication happens non-verbally (also known as body-language), and becoming aware of your and others non-verbal expressions can make you a much better communicator. Along with becoming a better communicator you can also become more

aware of when people are not being honest with you. The second article in this activity reveals how you can train to be a human lie-detector. Lastly, you can discover the various smiles that exist and the myriad benefits that can be enjoyed by increasing the amount you smile.

- In life you will experience challenging situations and circumstances and have to manage your emotional response to these events. In day to day life, how you handle your emotions can be the difference between having a healthy self-concept and satisfying relationships and work opportunities, or finding yourself left wanting in each of these areas. In this activity you will have the opportunity to learn about helpful emotions and how to cope emotionally in the wake of a disaster.

Learning Lab Preparation

- Each topic will provide a question or scenario for you to consider prior to attending your Learning Lab. Be sure to carefully consider each prompt as you will be expected to contribute to the group discussion.

Resources

Here are the resources you will need to complete this unit:

- Krause, M., Corts, D., Smith, S. C., & Dolderman, D. (2018). *Revel for An Introduction to Psychological Science, 2nd Canadian Edition*. Pearson Ed.
- Other resources will be provided online.

8.1 Biology of Emotion

Have you ever been embarrassed? *Of course, we all have Embarrassment is a good example for trying to separate biological, psychological, and social elements of an emotion. These correspond to blushing (biological), feeling embarrassed (psychological), and violation of a social norm (social).* Now back to your embarrassing moment: Which came first, blushing, feeling embarrassed, awareness of your faux pas? Which followed next? Last?

The close connection between our minds and our bodies usually makes it difficult to tell whether our bodily emotional response comes before or after our psychological emotional response. This is why even psychologists have disagreed on whether you run from danger because you are afraid, or are afraid because you are running from danger.

Lie Detectors

The close connection between mind and body is the basis for so-called “lie-detectors.” Of course, they do not detect lies but physical responses to cognitive information. While their “hit” rate is better than a coin toss, lie detectors can accuse the innocent and vindicate the guilty. Moreover, some experts claim there are simple techniques for beating the machine.

Activity: Read and Reflect

What do you think...*could you beat a lie detector device?* This activity will allow you to delve more deeply into the physiological aspects of human emotion (though, cognitions and behaviours do influence physiological processes) and how they can be monitored using a polygraph machine. To learn more about Lie Detectors, follow the link below:

- **How Lie Detectors Work**

The reason polygraph machines can work better than flipping a coin is because they are measuring responses that often occur automatically and can be difficult, though not impossible, to bring under voluntary control.

Learning Lab Preparation

Prior to your Learning Lab, take some time to think about the following questions. You will be asked to share your thoughts in this week's Learning Lab:

- *How many ancient or old-fashioned methods for telling if someone is lying can you find on the internet?*

Often a person's life depended on these highly questionable methods.

8.2 Communicating Emotion

By now you know something about the physical responses involved in emotions, and you have given some thought to our responses to our emotions. However, a very important part of the study of emotions is the way that we *communicate* them. “I feel angry,” we say. But the way we say it also carries a message. Just stop for a minute and think about how many different ways (“channels” communication experts call them) we use to communicate emotions. We use our faces, our bodies, the tone and volume of our voice; in writing we use words but we also use punctuation marks (.). And what about e-mail? How many ways can you find that we use to show our emotions in e-mail? (*Hint: What are emoticons?*)

How Many Facial Expressions?

The study of emotion has long been linked with the study of facial expressions. Psychologists have been interested in the way in which people express emotion and whether these facial expressions reliably convey the emotional message. Studies by Ekman and others have raised a contemporary interest in emotional expression. It appears that there are some universal aspects of emotion across a number of cultures. Seven emotions have been consistently identified: happiness, sadness, anger, disgust, contempt, fear, and surprise. However, questions remain about whether this is a complete spectrum of emotion and whether there are culture-specific aspects of facial emotion expression. What can you find on the internet concerning the number of possible facial emotional expressions?

Activity: Read and Reflect

Is there a practical use to understanding how we communicate emotions? Yes, actually there are several possible uses. One very interesting use is in the understanding of deception. For as long as we have records, we know that people have understood that liars don't seem to be able to control all of their communication channels. Verbally, they deny they are lying, but the truth screams out from eye movements; *a slightly irregular smile, a faint blush....* This activity provides additional information for your consideration:

- **Body Language Speaks Volumes**
- **Catching a Liar**

- **10 Reasons Why You Should Smile**

Another possible use of understanding emotional communication better is the development of computers that can read human emotions from speech or facial expressions. This would enable far better communication between computers and their human masters.

Learning Lab Preparation

Prior to your Learning Lab, take some time to think about the following questions. You will be asked to share your thoughts in this week's Learning Lab:

- *Do you think that people make distinctive facial expressions when they lie? Give your answer, and an example if you can.*

8.3 Experiencing Emotion

Now that you understand what's happening inside your body when you are angry or embarrassed, or experiencing some other emotion, maybe you can see

why we often find it so hard to control our emotions. Of course this leads to the question “Should we try to control our emotions?” Or should we just accept them as natural and inevitable? What is the proper role of emotions in our life? For example, imagine you are angry, very angry. Should you suppress and deny your anger out of fear of what you might do? Or should you “blow off steam” and freely express your true feelings?

Consider the following arguments (*adapted from Philipchalk, 1988, p.114 ff*):

8.4 What is the Proper Role of Emotion?

No Role

It is not hard to see that emotions are not only frequently unpleasant, but are also a source of conflict. *Anger* causes us to say things we later regret; *fear* of others inhibits our honesty; and even anticipated *happiness* may blind us to the harmful effects of our actions. We speak of being “swayed by our emotions,” indicating they caused us to do or say something we wouldn’t have done otherwise. Emotions are often unpredictable, making it difficult to arm ourselves against them. They vary with our physical and mental condition, with the amount of sleep we’ve had, our blood sugar level, and a host of environmental factors. They have a clear physiological “animal-like” component. And they are part of our fallen nature. Paul warns us, “*Now those who belong to Christ Jesus have crucified the flesh with its passions and desires*” (*Gal. 5:24*). No doubt Paul recognized that emotions arising from our physical bodies frequently play an important role in leading us to “*practice the very evil that I (we) do not wish*” (*Rom. 7:19*). Surely such an unpredictable and potentially dangerous influence should be discounted in favor of our more God-like rational faculties; isn’t the “cool intellect” superior to the “hot-head?”

Furthermore, since emotions are such an elusive and private matter, the direction they give to behavior is easily misinterpreted, sometimes with disastrous results. For example, we might misinterpret physiological arousal as attraction. (*Psychologists Dutton and Aron (1970) found that male subjects meeting an attractive woman on a high bridge felt more attracted to her than subjects meeting her on a lower bridge*). Or we might misinterpret our physical attraction as love. (*Psychiatrist Scott Peck (1978) argues that the experience of “falling in love” is inevitably sexual*). Particularly important for Christians is the danger of misinterpreting an emotional response as the voice of God. Some Christians frequently attempt to determine God’s will by looking for an inner feeling. They may even base life-changing decisions on fleeting inner impressions of peace, unsettledness, or excitement. This can be extremely dangerous. Such feeling may be little more than expressions of their own inner wishes or fears, or simply physiological arousal that has been mislabeled.

To summarize, emotions are unreliable, easily misinterpreted, and a tool for possible manipulation. They are deeply rooted in our animal-likeness—our physical

bodies. As such they should be brought into subjection and perhaps ignored or entirely minimized. In short, it would appear from these considerations that emotions should have no legitimate role in the regulation of behavior.

Important Role

The first thing to note with regard to the importance of emotion is that they appear to be part of God's design for us. God has chosen to form us as emotional beings as well as rational and volitional ones. Although we are fallen, and therefore our capacities of thought and will, as well as our emotional responses, are imperfect, we are created in God's image nevertheless. The bible ascribes emotions to God. Although some people may dismiss these references as anthropomorphisms, God certainly acts as though He felt emotions like anger, sadness, and joy. Furthermore, Jesus took on an emotion-feeling body, and expressed a full range of emotions (possibly more than most men in contemporary Western culture). In addition, the fruit of the Spirit (Gal. 5:22-23) includes several blessings with strong emotional components (e.g., joy, peace). Whatever their weaknesses, emotions cannot be dismissed as wholly sinful.

One of the important early findings of modern psychology was the discovery that emotions must not be completely ignored. To deny and suppress them is to court harm. This does not mean that we should give free expression to every feeling we have. Psychological health doesn't require that we blowup in anger every time that someone crosses us. But neither should we deny, especially to ourselves, that we are angry. Anger can be redirected to constructive ends; it can be controlled through cognitive strategies such as refusing to dwell on the situation that produced it. The Apostle Paul seems to take a similar position when he says, "*Be angry and yet do not sin*" (Eph. 4:26), indicating that while anger is probably inevitable, the sinful response in thought or behavior is not.

Of course there is a positive side to emotions. They provide the flavor, the resonance, the texture, and the color in an otherwise dull existence. One of the main features that distinguish a person from a machine, which might be capable of many human feats, is the person's sentient or feeling ability, the person's capacity to experience emotion. Emotions are the source of much that is pleasant and good in life. Christians find joy and peace in serving God. Even so-called negative emotions have their value. We can direct hatred towards evil; anger can motivate us to overcome injustice; and fear can drive us to God.

Thus emotions are an inevitable part of the God-ordained human condition. They provide the highs as well as the lows in our experience, and their recognition (although not necessarily their uncontrolled expression) is necessary for our health. Although they may frequently lead us astray, and may potentially be the source of unwanted influence, we are fallen creatures, and our other faculties, rational and volitional, are also imperfect. Emotions must be trained. As C.S. Lewis noted, we must be educated to "*feel pleasure, liking, disgust, and hatred at those things which really are pleasant, likable, disgusting, and hateful*" (*The*

Abolition of Man, [1943] 1978, p.15). For Lewis, trained emotion not the lack of emotion is the essential mark of the virtuous person. The maturing person will show greater and greater appropriate emotionality.

Despite controversy at the theoretical level concerning the exact relationship between our thoughts and other components of emotions, the work of Stanley Schacter and Jerome Singer - see *Schachter-Singer Theory of Emotion* has clearly indicated the importance of mental responses. We probably have the potential for a great deal more control over our emotions than we usually admit.

Activity: Read and Reflect

How well do you handle your emotions? If you are finding that you are being led emotionally in directions that are not the best for your life or you find that you're avoiding your emotions, it may be time to find out how to make your emotions work for you. The following resources can help you discern between helpful vs. harmful ways of dealing with emotions. The second link is a resource that offers help for emotionally dealing with disaster in your life.

- **Ways to Handle Emotion**

- **Recovering Emotionally from a Disaster**

Learning Lab Preparation

Prior to your Learning Lab, take some time to think about the following questions. You will be asked to share your thoughts in this week's Learning Lab:

- *Do you think that we can “put on a happy face” and really feel different?*
- *Can we make ourselves happy or sad by what we think?*

Assessment

While there is no “formal” assignment that you will be responsible for submitting for Unit 8, you will be expected to participate in discussion during your Learning Lab. Your facilitator will be providing a participation mark based on your contributions. Below is some information to consider prior to attending your Learning Lab:

Learning Lab

Your facilitator will be providing a participation mark based on your contributions for this unit. Below is some information to consider prior to attending your Learning Lab:

Active participation in group exercises, reflection, and critical discourse is an essential component of this course. You are expected to show respect for all members of the course, both in your speech and actions. Contribute by actively observing and listening, raising thoughtful questions, examining relevant issues, building on others' ideas, analyzing and evaluating the group's thinking, synthesizing key points, and expanding the group's perspectives. Take care not to dominate a conversation, giving space for others to speak. When in small groups help maintain the focus, flow, and quality of conversations, and take the initiative to invite others (particularly those who are quiet) to speak.

Rubric for Participation in Learning Labs

Emerging (0-64%)	Developing (65-89%)	Mastering (90-100%)
Never to almost never: Demonstrates active listening (as indicated by disengaged body language and no to rare comments that build on others' remarks), Initiates any contributions in class or small groups, Makes insightful or constructive comments, Helps maintain a supportive space for others to speak.	Sometimes to fairly often: Demonstrates active listening (as indicated by somewhat to often engaged body language and comments that build on others' remarks), Initiates a contribution at least once in a class or small group discussion; Makes insightful or constructive comments, Helps maintain a supportive space for others to speak.	Very often to nearly always: Demonstrates active listening (as indicated by fully engaged body language and comments that build on others' remarks), Initiates more than one contribution in a class or small group discussion, Makes insightful or constructive comments, Creates a space for others to speak and takes initiative to include others.

Checking your Learning

Before you move on to the next unit, check that you are able to:

- Define the key terminology related to health psychology, stress and illness, and coping and well-being.
- Describe how genetic and environmental factors influence obesity, how physiological reactions that occur under stress, and how the

immune system is connected to stress responses.

- Apply your knowledge of persuasion and health to examine the effectiveness of different types of cigarette warnings, and of the beneficial effects of optimism to help you reframe stressful situations as positive opportunities.
- Analyze whether media depictions of smoking affect smoking in adolescents, the claim that ulcers are caused by stress, and whether activities such as relaxation techniques, meditation, and biofeedback actually help people cope with stress and problems.
- Describe how control over the environment and positive and negative styles of coping influences well-being.

Chapter 9

Stress and Coping

Overview

In Unit 9, you will gain more insight into stress and coping. Together, Units 8 and 9 span information from Chapter 14 in your textbook, giving you a broad overview of the field of health psychology.

Health psychologists study both positive and negative impacts that humans' behaviour and decisions have on their health, survival, and well-being. The need for this field has increased considerably over the 20th century, as most premature deaths are attributable to lifestyle factors. Over this chapter you will gain knowledge about the interaction of all the levels of analysis (biological, psychological, sociocultural, and spiritual) with regards to your health. You will learn about the biological/physiological responses to stress and how a poor response to stress leaves a person more vulnerable to illness and slowing recovery time from illness and injury.

You will also see how having at least some degree of control helps people with coping and outlook. When control is threatened, people use compensatory responses, such as detecting order within random images. You will also be informed that coping, using a positive or negative style, is related to personality (e.g., optimism versus pessimism). Positive coping increases resilience—the ability to recover from adversity, and even benefit from the experience, as is the case with post-traumatic growth. Whereas, coping via negative affectivity and pessimism can have both psychological and physiological disadvantages. Finally, you will be advised as to how religion/spirituality, relaxation techniques, meditation, and biofeedback actually help people cope with stress and problems which can lead to human flourishing.

Topics

This unit will be divided into the following topics:

1. Stress
2. Health Psychology

Learning Outcomes

By the end of this unit, student's will be able to:

- Define, and apply, the key terminology related to health psychology, stress and illness, and coping and well-being.
- Describe how genetic and environmental factors influence obesity, how physiological reactions that occur under stress, and how the immune system is connected to stress responses.
- Apply your knowledge of persuasion and health to examine the effectiveness of different types of cigarette warnings, and of the beneficial effects of optimism to help you reframe stressful situations as positive opportunities.
- Analyze whether media depictions of smoking affect smoking in adolescents, the claim that ulcers are caused by stress, and whether activities such as relaxation techniques, meditation, and biofeedback actually help people cope with stress and problems.
- Describe how control over the environment and positive and negative styles of coping influences well-being.

Activity Checklist

Here is a checklist of learning activities you will benefit from in completing this unit. You may find it useful for planning your work:

Read and Reflect

- Read Krause et al. (2021). *Revel for An Introduction to Psychological Science, 3rd Canadian Edition*
//todo #6
- Review Unit 9 - Slides

Please note, the slides are intended to supplement the information found in your textbook. If you are having trouble viewing them, they can also be downloaded by scrolling to the bottom of the screen and clicking on the “Unit 9 - Slides” link.

Personal Reflection

If you are like most people, you likely have experienced some form of relational stress. Three common ways of handling this form of stress are to become aggressive, submissive, or assertive. In this activity, you look these different interpersonal conflict responses and determine what kind of outcome will likely follow a particular approach.

Watch, Read, and Reflect

In this activity you will watch Dr. Kelly McGonigal use some groundbreaking research to help people transform their perspective on stress. This just over 14 minute TED talk could actually change the course of your life. The second resource looks critically at the widely held belief that humour is good for your health.

Key Terms Quiz

NOTE: Units 8 & 9 both covered content from Chapter 14 in your textbook - this quiz will also cover terms from both units.

- Practice quiz to assess how well you know key terms from Chapter 14.
- Not for formal evaluation.

Learning Lab Preparation

- Each topic will provide a question or scenario for you to consider prior to attending your Learning Lab. Be sure to carefully consider each prompt as you will be expected to contribute to the group discussion.

Assessment

At the end of this unit, not only will you be assessed on your participation during the Learning Lab discussions, but you will also be responsible for submitting your first writing assignment.

- **Writing Assignment #2** is outlined on the “Assessment” page - expectations for this assignment, as well as a grading rubric, can be found by clicking on that tab.
- After completing this assignment, you will also be expected to completed **Quiz #2**. Again, information about the quiz can be found by clicking on the “Assessment” tab.

Resources

Here are the resources you will need to complete this unit:

- Krause, M., Corts, D., Smith, S. C., & Dolderman, D. (2018). *Revel for An Introduction to Psychological Science, 2nd Canadian Edition*. Pearson Ed.
- Other resources will be provided online.

9.1 Stress

Many health professionals and researchers have devised scales to measure stress. For some of these you might check out:

- **Teach Health**

This site also contains useful information on stress. Stress is a popular topic, so you will find lots of information on the internet; for example, you can find tips on reducing stress at:

- **Ways to Reduce Mental Health Challenges**

Many experts suggest meditation as a way to reduce stress. If you would like to investigate the topic of Christians and meditation further, I would encourage you to look into the Insight Timer app at:

- **Insight Timer**

Insighttimer.com also has some excellent general meditation resources for improving one's health over a number of different domains.

9.2 Aggression, Submission, and Assertion

Much of the stress we experience comes from problems we have with other people. Unfortunately, many people see only two alternatives in dealing with interpersonal conflict: aggression or submission. Are there other ways? Assertiveness represents a third alternative but one that is often confused with aggression. Assertive statements are not attacks. Rather, they communicate one's own perceptions and emotions. Such responses often take the form of "**I-statements**": I feel _____ when you do _____. Being assertive tends to defuse conflict situations because it gives both parties more complete information to work with—so it helps alleviate stress.

Activity: Personal Reflection

Now that you have some understanding concerning the differences between aggression, submission, and assertion, look at the situations below and devise all three kinds of responses to each one. Share these in your Learning Lab/Forum.

Situation #1: Someone is crowding in front of you in line at the grocery store.

- Aggressive Response: _____
- Submissive Response: _____

- Assertive Response: _____

Situation #2: After a physical exam the doctor gives you a prescription without telling you what the diagnosis is, what the medicine is for, or what the side effects might be. When you ask for this information, the doctor brushes off your question.

- Aggressive Response: _____

- Submissive Response: _____

- Assertive Response: _____

Situation #3: A boyfriend or girlfriend wants to end your relationship.

- Aggressive Response: _____

- Submissive Response: _____

- Assertive Response: _____

Situation #4: The boss tells you that your work has been of poor quality and that you will shape up or be fired.

- Aggressive Response: _____

- Submissive Response: _____

- Assertive Response: _____

Situation #5: You have received a grade that is much lower than you feel you deserved on an essay examination.*

- Aggressive Response: _____

- Submissive Response: _____

- Assertive Response: _____

Finally, in your forum, comment/respond on the following:

- Are any of your responses affected by your religious beliefs? How so?

Learning Lab Preparation

Prior to your Learning Lab, take some time to think about the following questions. You will be asked to share your thoughts in this week's Learning Lab:

- Each of us has some minor annoyances that add to our stress level more than they should. What gets you stressed out? What are your everyday "pet peeves" (annoyances)? Does the stress that these things produce seem justified? What are some things you can do to decrease your stress responses to these situations?

9.3 Health Psychology

As mentioned in the Overview, health psychologists study both positive and negative impacts that humans' behaviour and decisions have on their health, survival, and well-being. Below are a couple of examples describing the impact of having some form of reward that perpetuates the use of a behaviour (whether healthy or unhealthy) and the power of remaining committed to making the changes you want to see.

1. A primary concern of health psychology is not to find new cures, but to get people to use the solutions that are available. Smoking, drug use, overeating, and gambling are just some of the destructive behaviors in which people engage because they say they don't have the willpower to quit. We might say because they want to engage in them. Why? Generally, we have to conclude that there are rewards for engaging in these behaviors. You might want to examine some of your behaviors, especially ones that could be considered "maladaptive", in light of what rewards are maintaining them.
2. E. Scott Geller has written extensively in the area of motivating healthful behavior. His research covers alcohol use, driving while impaired, highway safety, and seat belt use. For several years he has personally carried on a campaign to get airlines to make a seat belt announcement at the end of each flight (Geller, 1989). Sometime during the flight Geller gives a pilot or flight attendant a small card.

In addition to attractive graphics, the card contains the following message:

Airline Announcement - *Now that you have worn a seat belt for the safest part of your trip, the flight crew would like to remind you to buckle-up during your ground transportation.*

Geller reports that in one 4 1/2 year time period, for 33.7 percent of the flights on which he gave out this card, the requested announcement was made. Some airlines even made the buckle-up reminder a regular part of their end-of-flight announcements. On the other hand, one airline distributed a memo to its staff stating "ignore the request of the Virginia Tech professor with the blue card." Geller had his cards reprinted on yellow stock and continued to distribute the requests! *Geller, E. S. (1989). The airline lifesaver: In pursuit of small wins. Journal of Applied Behavior Analysis, 22(3)*

This summary of Geller's past activities demonstrates that with motivation and persistence, you can change not only your own behaviours, but also, those of large corporations. If you have been on an airplane recently, you have likely noticed that the universally communicated announcement to have your seatbelt fastened during landing and transport back to the terminal.

Activity: Read and Reflect

In this activity you will watch Dr. Kelly McGonigal's *TED talk* titled, "**How to Make Stress your Friend.**" This video is groundbreaking research to help people transform their perspective on stress:

After watching the video, take a few minutes to read about Dr. Gil Greengross' research that challenges the widely held belief that humour is good for your health. Here is the link to his Psychology Today article:

- ***Psychology Today***

Take some time to ponder the messages in these resources. The questions during Learning Lab will challenge you and your thoughts around the above sources.

Key Terms Quiz

In order to review some of the major terms from Chapter 14 in your textbook, take the following unmarked quiz. Although you will not be evaluated on these terms, they will assist you in the assessments for this course.

Learning Lab Preparation

Prior to your Learning Lab, take some time to think about the following questions. You will be asked to share your thoughts in this week's Learning Lab:

- ***Who is ultimately responsible for how you react to different situations and circumstances in your life? How do you know this?***
- ***Is there a good time to just laugh something off?***
- ***What are some potential stress related consequences of habitually turning to humour when dealing with stress?***

Assessment

In addition to your participation in this unit's Learning Lab, you will also be responsible for two formal assessments. The first, is your **Writing Assignment #2** - more information can be found on this assignment by scrolling down the page. The second assessment that will take place is your second quiz - again, more information can be found by scrolling down the page.

Active participation in group exercises, reflection, and critical discourse is an essential component of this course. You are expected to show respect for all members of the course, both in your speech and actions. Contribute by actively observing and listening, raising thoughtful ques-

tions, examining relevant issues, building on others' ideas, analyzing and evaluating the group's thinking, synthesizing key points, and expanding the group's perspectives. Take care not to dominate a conversation, giving space for others to speak. When in small groups help maintain the focus, flow, and quality of conversations, and take the initiative to invite others (particularly those who are quiet) to speak.

Rubric for Participation in Learning Labs

Emerging (0-64%)	Developing (65-89%)	Mastering (90-100%)
Never to almost never: Demonstrates active listening (as indicated by disengaged body language and no to rare comments that build on others' remarks), Initiates any contributions in class or small groups, Makes insightful or constructive comments, Helps maintain a supportive space for others to speak.	Sometimes to fairly often: Demonstrates active listening (as indicated by somewhat to often engaged body language and comments that build on others' remarks), Initiates a contribution at least once in a class or small group discussion; Makes insightful or constructive comments, Helps maintain a supportive space for others to speak.	Very often to nearly always: Demonstrates active listening (as indicated by fully engaged body language and comments that build on others' remarks), Initiates more than one contribution in a class or small group discussion, Makes insightful or constructive comments, Creates a space for others to speak and takes initiative to include others.

9.4 Writing Assignment #2

Your second writing assignment for the course will involve reading a formal research article and extracting important information. Research articles play an important role in the field of psychology as they present new findings and research that help us better understand the subject field. It is critical, however, to understand what information is important as we assess the value of the article we are reading. This assignment attempts to help us better understand those considerations.

Prior to moving ahead, it is strongly encouraged that you take a moment to review the **How to Read Empirical Articles** reading from the first writing assignment - this will serve as a reminder *why* you are reading an article so you can better understand *what* is important to get out of it.

Building upon that, also take some time to review **How to Read a Journal Article in Social Psychology** - this article will help support your understanding of formal, empirical research journal articles.

Finally

After reviewing the resources above, we begin this assignment by reading the following article:

Pathways Linking Early Socioeconomic Adversity to Diverging Profiles of Romantic Relationship Dissolution in Young Adulthood

Rubric for Writing Assignment #2

In addition to the criteria included in the rubric below, it is expected that students submit their assignments with an APA style title page. Estimate that each response will be between one paragraph to $\frac{1}{2}$ a page (depending on what the question is asking and how much information is in the article). The total amount of content will be between $2\frac{1}{2}$ to 3 pages (not including the title page).

Exceeds Expectations | Meets Expectations | Minimally Meets Expectations | Does Not Meet Expectations |

||-|-| |Responses are accurate and address the questions in a comprehensive manner |Responses are accurate and address the questions but could demonstrate more meaningful comprehension of content |Responses may lack accuracy in addressing the questions and/or may demonstrate limited comprehension of content | Responses do not accurately address the questions or do not demonstrate any comprehension of content | |Clear, precise and well-reasoned responses |Mostly clear, precise and well-reasoned responses |Some clear, precise and well-

reasoned responses |Responses lack clarity, logic and/or precision | |
|Spelling and grammar are accurate. |Minor and/or few spelling or
grammatical errors. | Several spelling or grammatical errors. |

*To submit your completed assignment, scroll to the bottom
of the page and click on the “Writing Assignment #2” tab -
follow the directions there.*

Quiz #2

Upon completing your Writing Assignment #2, you will next complete your second quiz.

Your instructor will provide additional instructions. Student's will be provided with one attempt. You will be provided information about when the quiz will open so you can begin.

To begin your quiz, click on the Quiz #2 tab at the bottom of the screen.

Checking your Learning

Before you move on to the next unit, check that you are able to:

- Define and apply the key terminology related to health psychology, stress and illness, and coping and well-being.
- Describe how genetic and environmental factors influence obesity, how physiological reactions that occur under stress, and how the immune system is connected to stress responses.
- Apply your knowledge of persuasion and health to examine the effectiveness of different types of cigarette warnings, and of the beneficial effects of optimism to help you reframe stressful situations as positive opportunities.
- Analyze whether media depictions of smoking affect smoking in adolescents, the claim that ulcers are caused by stress, and whether activities such as relaxation techniques, meditation, and biofeedback actually help people cope with stress and problems.
- Describe how control over the environment and positive and negative styles of coping influences well-being.

Chapter 10

Psychological Disorders

Overview

Whether due to sheer fascination with the unusual, or perhaps just personal curiosity, many introductory psychology students look forward to learning about psychological disorders. Abnormal human behavior is a universal part of human history. In this unit you will learn about past and current perspectives on how to recognize and understand various psychopathologies and the numerous challenges that often accompany disorders. I would encourage you to refrain from diagnosing yourself, or others, while you are covering the information involved with this chapter. It will be tempting, especially with the checklist style presentation of some of the material, however; to offer an appropriate diagnosis of someone, you will need to obtain a minimum of a master's degree in clinical or counselling psychology.

Topics

This unit will be divided into the following topics:

1. Looking at What is Normal and Anxiety Disorders
2. Mood Disorders
3. Schizophrenia
4. Personality Disorders

Learning Outcomes

By the end of this unit, student's will be able to:

- Define the key terminology associated with classifying psychological disorders, personality and dissociative disorders, anxiety, obsessive-compulsive, and depressive disorders, and schizophrenia.
- Describe advantages and criticisms associated with the Diagnostic and Statistical Manual of Mental Disorders (DSM-5).
- Apply your knowledge of the mental disorders defense to decide if defendants are criminally responsible for their actions.
- Analyze whether the benefits of labelling psychological disorders outweigh the disadvantages, the status of dissociative identity disorder as a legitimate diagnosis, and whether maladaptive aspects of specific phobias might arise from perfectly normal, healthy behaviours.
- Apply your knowledge of antisocial personality disorder to explain how it could help people succeed in certain professions.
- Describe the different types of anxiety disorders and how anxiety or depressive disorders can be self-perpetuating.
- Apply your knowledge of anxiety, obsessive-compulsive, and depressive disorders, to be alert to people who might benefit from some help, and to be able to identify different forms of schizophrenia.
- Describe how different neurotransmitters affect individuals with schizophrenia and the genetic and environmental contributions to this disorder.
- Analyze claims that schizophrenia is related to genius or violent behaviour.

Activity Checklist

Here is a checklist of learning activities you will benefit from in completing this unit. You may find it useful for planning your work:
Read and Reflect

- Read *Krause et al. (2021). Revel for An Introduction to Psychological Science, 3rd Canadian Edition*

- Review **Unit 10- Slides**

[CLICK HERE](#)

An Introduction to Psychological Science - Chapter 15 - Psychological Disorders

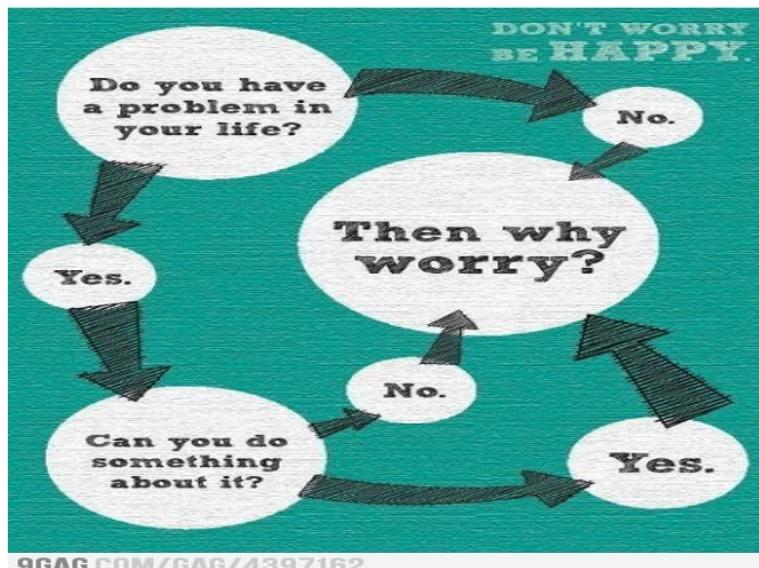
Biblical Word Study

- Anxiety/Worry – i.e., Matthew 6:25 (NIV)

²⁵ “Therefore I tell you, do not worry (be anxious) about your life, what you will eat or drink; or about your body, what you will wear. Is not life more important than food, and the body more important than clothes?”

- Gr. *μεριμνάω* (Merimnau) – to be anxious or solicitous (uneasy, bothered, apprehensive); to expend careful thought; to concern one's self; to have the thoughts occupied with.
- Evil – i.e., 1 Thessalonians 5:21-22 (NIV)
 - ²¹ Test everything. Hold on to the good.
 - ²² Avoid every kind of evil.
- Gr. *πονηρός* (Poneros) – bad (terrible, dreadful, shocking, ruthless), unsound; evil (hateful), afflictive; wrongful, malignant (nasty, cruel), malevolent; wicked(ness) (depraved, immoral, atrocious, appalling), impious; slothful, inactive; the evil one, the devil; can also imply covetousness.

Psychological Disorders



Slide showing - Cycle for Worry

True or False?

- T F 1. In some cultures, depression and schizophrenia are nonexistent.
- T F 2. Many people are curious about the cause of mental disorders.

- T F 3. About 30 percent of psychologically disordered people are dangerous; that is, they are more likely than other people to commit a crime.
- T F 4. Research indicates that in the United States there are more prison inmates with severe mental disorders than there are psychiatric inpatients in all the country's hospitals.
- T F 5. Identical twins who have been raised separately sometimes develop the same phobias.
- T F 6. Dissociative identity disorder is a type of schizophrenia.
- T F 7. In North America, today's young adults are three times as likely as their grandparents to report having experienced depression.
- T F 8. White Americans commit suicide nearly twice as often as Black Americans do.
- T F 9. There is strong evidence for a genetic predisposition to schizophrenia.
- T F 10. About 1 in 4 adult Americans suffer from a diagnosable mental disorder in a given year.

Modules

- 15.1: Defining and Classifying Psychological Disorders**
- 15.2: Personality and Dissociative Disorders**
- 15.3: Anxiety, Obsessive-Compulsive, and Depressive Disorders**
- 15.4: Schizophrenia**



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Slide showing - Learning Modules

Learning Objectives

- Know the key terminology associated with defining and classifying psychological disorders.
- Understand advantages and criticisms associated with the Diagnostic and Statistical Manual of Mental Disorders (DSM-5).
- Apply your knowledge of the mental disorders defence to decide if defendants are criminally responsible for their actions.
- Analyze whether the benefits of labelling psychological disorders outweigh the disadvantages.

Defining Abnormal Behaviour

- Abnormal psychology (p. 564)

- What is “abnormal” behaviour?
 - Maladaptive behaviour (p. 564)

Early Understanding and Treatment

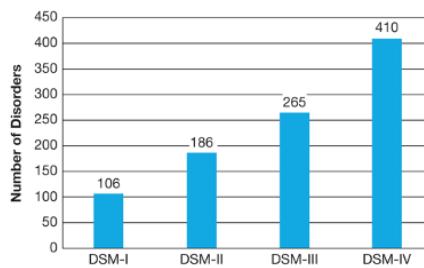
- Possession by evil
- Asylums (p. 564)
- William Battie

- Phillippe Pinel
- Early Classification Systems
- Mania, Melancholia
 - Medical model (p. 564)
 - Emil Kraepelin
- Psychology's Puzzle: How to Diagnose Psychological Disorders
- Diagnostic and Statistical Manual for Mental Disorders (D S M) (p. 565)
 - First edition (D S M-I)
 - Imperfect document
 - Fifth edition (D S M-5)
 - Work in progress

Psychology's Puzzle: How to Diagnose Psychological Disorders (2 of 2)

Figure 15.1 The Number of Disorders in the DSM over Time

The number of behaviours that are classified as psychological disorders has changed over the past 80 years. The numbers increased substantially from the DSM-I through the DSM-4.



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Slide showing - The Number of Disorders in the D S M over Time
Critiquing the D S M & The Power of a Diagnosis

- D S M is imprecise
 - “Symptom” or normal experience?
 - Disorders share symptoms
 - “Disorder” or not?

- Diagnostic labels

– Possible drawbacks

Working the Scientific Literacy Model: Culture and Diagnosing Mental Disorders

- What do we know about culture and diagnosing mental disorders?
 - Culture-bound syndromes (p. 568)
 - * Ataque de nervios

* Shenjing shuairuo

- How can science explain the effect of culture on diagnosing mental disorders?

- Can we critically evaluate this information?

– Cultural Formulation Interview

- Why is this relevant?

– Improving accuracy of diagnosis

Psychological Diagnoses in the Classroom: A D H D

- Attention-deficit hyperactivity disorder (A D H D) (p. 569)

- Over-diagnosed?

Psychological Diagnoses in the Courtroom: The Mental Disorder Defence

- Mental disorder defence (p. 570)

– Used in less than 1% of Canadian court cases; success rate of less than 25%

– M'Naghten rule

Learning Objectives

- Know the key terminology associated with personality and dissociative disorders.

- Understand how different types of personality disorders can affect interpersonal relationships.

- Apply your knowledge of antisocial personality disorder to identify which maladaptive behaviour is consistent with each disorder.

- Analyze the status of dissociative identity disorder as a legitimate diagnosis.

Activity: Acting out a Disorder

- Your group will receive one of the ten disorders outlined in

your notes. You will have 25 minutes to put together a short 5 minute skit that demonstrates the main features of the disorder. You have creative freedom in how you want to put this skit together, however everyone in the group must play a part.

- After all the skits are done we'll take a vote as to who had the best skit, the team with the most votes will receive 2 bonus marks that will be applied to their next quiz.

Defining and Classifying Personality Disorders

- Cluster A Disorders
 - Odd or eccentric behaviour
 - Paranoid Personality Disorder, Schizoid Personality Disorder, and Schizotypal Personality Disorder
- Cluster B Disorders
 - Dramatic, emotional, and erratic behaviour
 - Antisocial Personality Disorder, Borderline Personality Disorder, Histrionic Personality Disorder, and Narcissistic Personality Disorder
- Cluster C Disorders
 - Anxious, fearful, and inhibited behaviour
 - Avoidant Personality Disorder, Dependent Personality Disorder, and Obsessive-Compulsive Personality Disorder
- Personality Disorder Not Otherwise Specified
 - A diagnosis given to individuals who exhibit patterns of behaviour consistent with that of a personality disorder, but which does not fit into any of the personality disorder categories described above

Paranoid Personality

- Paranoid personality disorder (P D P) (p. 573)
 - Difficulty forming close relationships
 - 2-4% of the population
 - Threat vigilance

Schizoid Personality

- Schizoid personality disorder (S P D) (p. 573-574)
 - Cold and aloof

- Less intense emotional expressions

- Indifferent to praise or criticism

Schizotypal Personality

- Schizotypal personality disorder (p. 574)
 - Suspicious and superstitious

- Imagined connections between thoughts and events

- Associations

- * Superior temporal gyrus

- * COMT gene

- * Pregnancy complications

- * Psychological trauma and chronic stress

Borderline Personality

- Borderline personality disorder (B P D) (p. 575)
 - All-or-nothing thinking

- Troubled relationships

- Self-injury

Narcissistic Personality

- Narcissistic personality disorder (N P D) (p. 575)
 - Manipulative

- Lack empathy

- Cheating

Histrionic Personality

- Histrionic personality disorder (H P D) (p. 575)
 - Term has Latin origin
 - * “like an actor”

- Use flirtation and flattery

- Indulgent and risky behaviours

- Sensitive to criticism; manipulative in relationships

Antisocial Personality

- Antisocial personality disorder (A P D) (p. 576)
 - Resistant to treatment

- Link to frontal lobes

- Connection to trauma and abuse

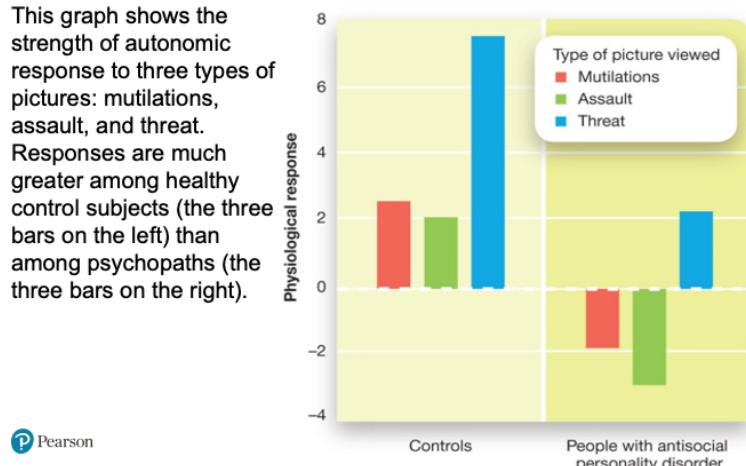
Working the Scientific Literacy Model: The Criminal Psychopath

- What do we know about psychopaths?
 - A P D vs. Psychopathy
 - Hare Psychopathy Checklist-Revised
- How can science explain antisocial personality disorder?
 - Under-reactive to stress
 - Brain differences

Working the Scientific Literacy Model: The Criminal Psychopath (2 of 3)

Figure 15.3 Emotional Responses of Psychopaths

This graph shows the strength of autonomic response to three types of pictures: mutilations, assault, and threat. Responses are much greater among healthy control subjects (the three bars on the left) than among psychopaths (the three bars on the right).



Slide showing - Emotional Responses of Psychopaths

- Can we critically evaluate this information?
 - Differences in neural activity – planning instead of empathizing?
- Why is this relevant?
 - Early diagnosis and treatment

Avoidant Personality

- Antisocial personality disorder (A v P D) (p. 578)
 - Afraid of embarrassment

- Focus on criticism
- Avoid forming social bonds

- Amygdala response

Dependent Personality

- Dependent personality disorder (D P D) (p. 578)
 - Lack confidence

- Fear of abandonment, rejection

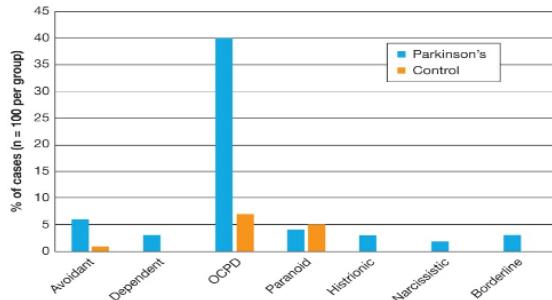
Obsessive-Compulsive Personality

- Obsessive-Compulsive personality disorder (O C P D) (p. 578)
 - Distressing, maladaptive focus on details and control
 - Link to Parkinson's disease, dopamine

Obsessive-Compulsive Personality (2 of 2)

Figure 15.5 Personality Disorders in Patients with Parkinson's Disease

Parkinson's disease is a movement disorder caused by damage to dopamine systems projecting to the basal ganglia in the brain. In one study, 40% of patients with Parkinson's disease also had OCPD, suggesting that this personality disorder involves dopamine-releasing brain regions.



Source: Adapted from Nicoletti et al. (2013). Obsessive compulsive disorder and Parkinson's disease. *PLoS ONE*, 8(1), e54822. Copyright © 2013 Pearson Canada Inc.

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Slide showing - Personality Disorders in Patients with Parkinson's Disease

Dissociative Identity Disorder

- Dissociative disorder (p. 579)
- Dissociative identity disorder (D I D) (p. 579)
 - 1% of patients
 - Brought on by extreme stress

– Difficult to test for

Learning Objectives

- Know the key terminology related to anxiety, obsessive-compulsive, and depressive disorders.
- Understand the different types of anxiety disorders.
- Understand how anxiety or depressive disorders can be self-perpetuating.
- Apply your knowledge of anxiety, obsessive-compulsive, and depressive disorders in order to identify which behavioural symptoms are associated with each disorder.
- Analyze whether maladaptive aspects of specific phobias might arise from perfectly normal, healthy behaviours.

Anxiety Disorders

- Anxiety disorders (p. 583)
 - Normal stress
 - * Fight-or-flight response

- Maladaptive responses

Varieties of Anxiety Disorders

- Generalized anxiety disorder (GAD) (p. 583)
 - Trouble identifying cause of stress
 - Major life changes
- Panic disorder (p. 584)
 - Panic attacks (p. 584)
- Agoraphobia (p. 584)
 - Avoid public settings

Working the Scientific Literacy Model: Specific Phobias (1 of 3)

What do we know about specific phobias?

Table 15.3 Prevalence of Symptoms in a Survey of 293 Individuals with Obsessive-Compulsive Disorder

Percentage of Sample Experiencing Obsession	Specific Types of Obsessions
58%	A fear of being contaminated
56%	Persistent doubting
48%	Need to arrange things in a symmetrical pattern
45%	Aggressive thoughts
Percentage of Sample Experiencing Compulsion	Specific Types of Obsessions
69%	Checking
60%	Cleaning
56%	Repeating actions

Source: Based on Pinto, A., Mancebo, M., Eisen, J., Pagano, M., & Rasmussen, S. (2006). The Brown longitudinal obsessive-compulsive study: Clinical features and symptoms of the sample at intake. *Journal of Clinical Psychiatry*, 67, 703–711.



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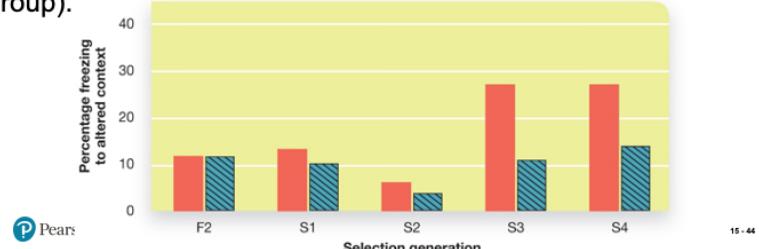
Slide showing - Prevalence of Symptoms in a Survey of 293 Individuals with Obsessive-Compulsive Disorder

Working the Scientific Literacy Model: Specific Phobias (2 of 3)

How can science explain why some people are more likely to develop specific phobias?

Figure 15.7 Anxiety Levels Are Inherited in an Animal Model

Over the course of just a few generations, mice from the highly fearful genetic strain show increasingly strong fear responses as indicated by the height of the red bars. The blue bars represent the responses of a typical genetic strain of mice (i.e., the control group).



*Slide showing - Anxiety Levels Are Inherited in an Animal Model
Working the Scientific Literacy Model: Specific Phobias*

- Can we critically evaluate this information?
 - Humans are not mice
 - Genetics could only partially explain phobias

- Why is this relevant?
 - Treatment of phobias

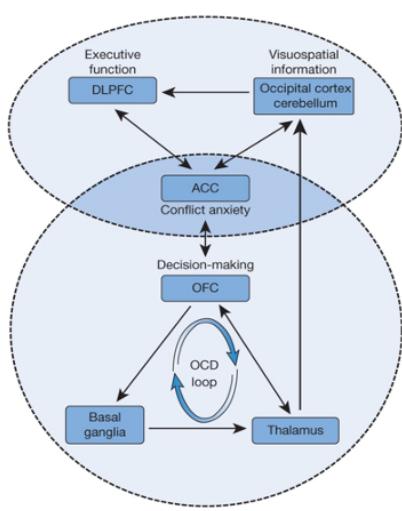
Anxiety Disorders

- Social anxiety disorder (p. 586)
 - Prefer familiar places and routines
- Obsessive-compulsive disorder (O C D) (p. 586)

OCD and the Brain

Figure 15.8 Obsessive–Compulsive Disorder and the Brain

OCD involves impairments in two “loops” in the brain. The orbitofrontal loop consists of the orbitofrontal cortex, basal ganglia, and thalamus. It is related to many OCD behaviours. A second neural “loop” or network consists of the dorsolateral prefrontal cortex, anterior cingulate cortex, and visual regions at the back of the brain. Dysfunction of this network is associated with many of the cognitive symptoms that occur in OCD, such as problems with working memory and attentional control.



Source: Adapted from Nakao, T., Okada, K., & Kanba, S. (2014). Neurobiological model of obsessive-compulsive disorder: Evidence from recent neuropsychological and neuroimaging findings. *Psychiatry and Clinical Neurosciences*, 68, 587-605.

Slide showing - Obsessive–Compulsive Disorder and the Brain

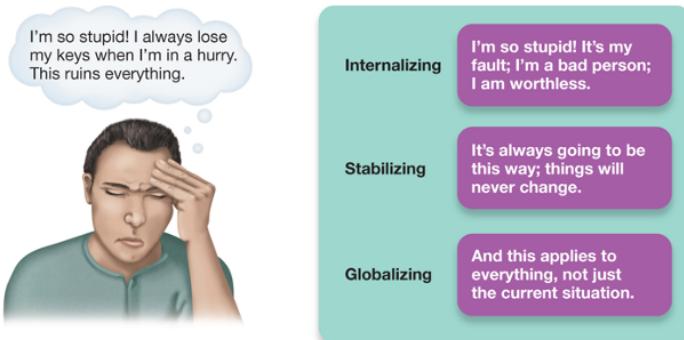
Mood Disorders

- Major depression (p. 587)
 - Depressed cognition
 - Lethargic and sleep
 - * Insomnia
 - Appetite change
 - Digestive problems

Cognitive Aspects of Depression

Figure 15.9 Three Elements of the Depressive Explanatory Style

The three elements of the depressive explanatory style are internalizing, stabilizing, and globalizing.



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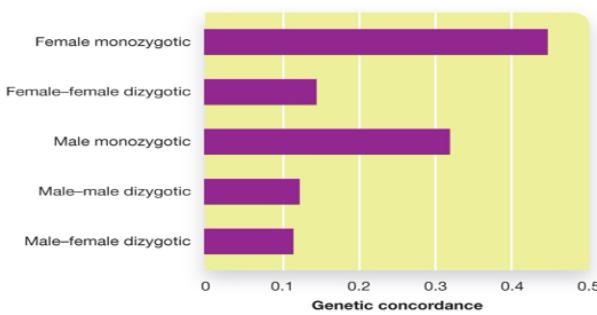
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Slide showing - Three Elements of the Depressive Explanatory Style

Genetic Vulnerability to Depression (1 of 2)

Figure 15.10 Genetic Relatedness and Major Depression

Identical (monozygotic) twins have a greater chance of both developing major depression compared to fraternal (dizygotic) twins. Notice that the genetic correlation is highest for female monozygotic twins.



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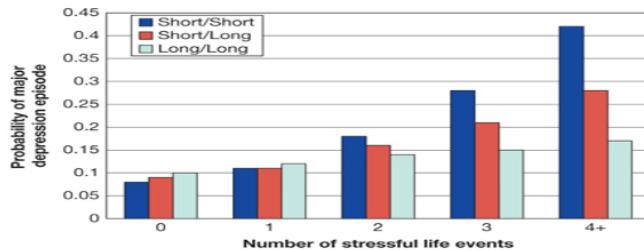
15 - 50

Slide showing - Genetic Relatedness and Major Depression

Genetic Vulnerability to Depression (2 of 2)

Figure 15.11 Gene and Environment Interactions in Depression

Stress interacts with genes and influences whether someone becomes depressed. People who inherit two copies of the short version of a gene that codes for serotonin activity in nerve cells are at an increased risk for becoming depressed in response to major life stressors. Those who inherit two long copies are buffered from becoming depressed as life stressors accumulate.



Source: Based on A. Caspi et al., (2003). Influence of life stress on depression: Moderation by a polymorphism in the 5-HTT gene. *Science*, 301(5631), 386–389.

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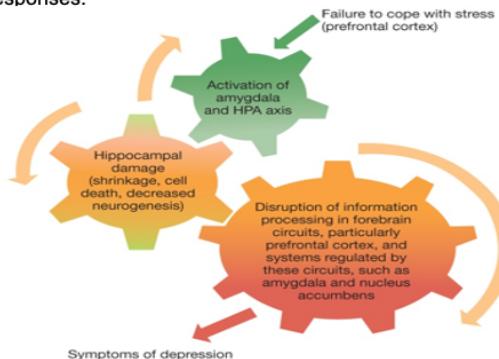
15 - 51

Slide showing - Gene and Environment Interactions in Depression

Biological Aspects of Depression

Figure 15.12 Stress, Depression, and the Brain

The HPA axis is stimulated by the amygdala and inhibited by the hippocampus and prefrontal cortex. If the amygdala is overactive, as sometimes occurs in depression, this will upset the balance and lead to the release of stress hormones. These hormones can damage cells in the hippocampus, which further reduces its ability to inhibit stress responses.



Source: From Willner, P., Scheel-Krüger, J., & Belzung, C. (2013). The neurobiology of depression and antidepressant action. *Neuroscience and Biobehavioral Reviews*, 37, 2331–2371.

*Slide showing - Biological Aspects to Stress, Depression, and Brain
Sociocultural and Environmental Influences on Depression*

- Substandard housing, crime rates, economic stressors

- Social factors
 - Social Media
- Bipolar Disorder
- Bipolar disorder (p. 592)
 - 1/3 as often as depression
 - Episodes vary in length and duration
 - Mania can take several forms
 - Difficult to treat
 - High rates of suicide

Suicide

Table 15.4 Warning Signs of Suicide

Learn how to recognize the danger signals. Be concerned if someone you know

- Talks about dying by suicide
- Has trouble eating or sleeping
- Exhibits drastic changes in behaviour
- Withdraws from friends or social activities
- Loses interest in school, work, or hobbies
- Prepares for death by writing a will and making final arrangements
- Gives away prized possessions
- Has attempted suicide before
- Takes unnecessary risks
- Has recently experienced serious losses
- Seems preoccupied with death and dying
- Loses interest in their personal appearance
- Increases alcohol or drug use

Source: American Psychological Association. (2011). Suicide warning signs. Retrieved from www.apa.org/topics/suicide/signs.aspx



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Slide showing - Warning Signs of Suicide
PSYCH @ The Suicide Helpline

- Originally religious-based
 - Empathy and active listening
 - Problem-solving approach
- Best crisis responders use both resources
988 Suicide & Crisis Lifeline{target="blank"} Canadian Association for Suicide Prevention

Learning Objectives

- Know the key terminology associated with schizophrenia.
- Understand how different neurotransmitters affect individuals with schizophrenia.
- Understand the genetic and environmental contributions to schizophrenia.
- Apply your knowledge to identify different forms of schizophrenia.

Symptoms and Types of Schizophrenia

- Schizophrenia (p. 596)
- Stages (p. 596)
 - Prodromal phase
 - Active phase
 - Residual phase
- Positive symptoms (p. 596)
 - Hallucinations
 - Delusions
- Negative symptoms (p. 596)
- Disorganized behaviour (p. 597)
- Cognitive functioning
 - Working memory
- Social interaction
- Subtypes (p.598)
 - Paranoid
 - Disorganized
 - Catatonic

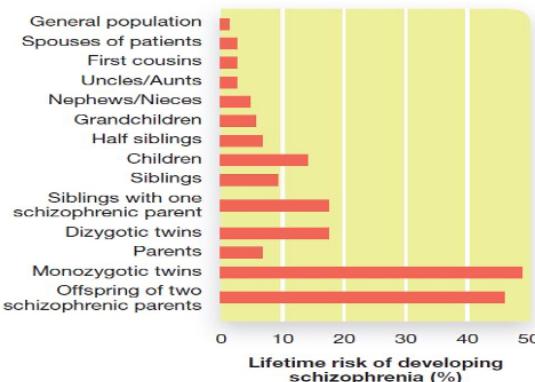
Myths in Mind: Schizophrenia is Not a Sign of Violence or Genius

- Myths
 - Split personality
 - Madness goes with genius
 - Dangerous
- High-profile cases
 - Ted Kaczynski
 - John Nash
 - * A Beautiful Mind

Explaining Schizophrenia: Genetics

Figure 15.13 Genetic Influences for Schizophrenia

The more genetic similarity an individual has to a person with schizophrenia, the more likely that he or she will also develop the disorder.



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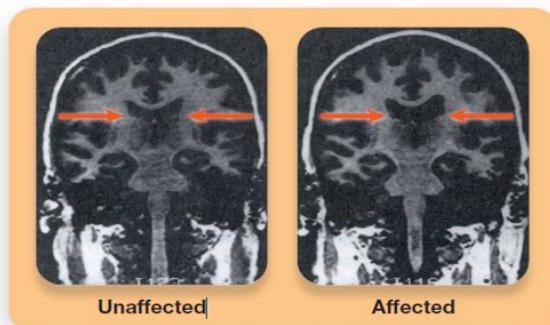
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Slide showing - Genetic Influences for Schizophrenia

Schizophrenia and the Nervous System

Figure 15.14 Brain Volume in One Monozygotic Twin with Schizophrenia and Another without Schizophrenia

The brains of two genetically identical individuals, one affected with schizophrenia and the other unaffected, are shown here. The arrows point to the spaces created by the ventricles of the brain. Note the significant loss of brain matter in the affected individual.



P Pearson Courtesy of E. Fuller Torrey and Daniel Weinberger

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Slide showing - Brain Volume in One Monozygotic Twin with Schizophrenia and Another without Schizophrenia

Working the Scientific Literacy Model: The Neurodevelopmental Hypothesis

- What do we know about the neurodevelopmental hypothesis?
 - Neurodevelopmental hypothesis (p. 600)
 - * Growth vs. development
- How can science test the neurodevelopmental hypothesis?
 - “Warning signs” in home videos
 - Schizophrenia prodrome
- Can we critically evaluate this information?
 - Growth spurts in the prefrontal cortex
 - Excessive synaptic pruning

- Why is this relevant?

- Alter progression of disease

Environmental Influences on Schizophrenia

- Environmental and Prenatal Factors
 - Maternal exposure to influenza virus

- Fetal exposure to stress
- Marijuana use
- Head injuries

- Urban environment

Cultural Influences on Schizophrenia

- Anglo-Americans
 - Mental experiences
- Mexican Americans
 - Effects on body
- Swahili of Tanzania
 - Spirit invasion of the body

Vulnerabilities and Protective Factors for Mental Disorders

Risk Factors	Protective Factors
<ul style="list-style-type: none"> • Academic failure • Birth complications • Caring for those who are chronically ill or who have a neurocognitive disorder • Child abuse and neglect • Chronic insomnia • Chronic pain • Family disorganization or conflict • Low birth weight • Low socioeconomic status • Medical illness • Neurochemical imbalance • Parental mental illness • Parental substance abuse • Personal loss and bereavement • Poor work skills and habits • Reading disabilities • Sensory disabilities • Social incompetence • Stressful life events • Substance abuse • Trauma experiences 	<ul style="list-style-type: none"> • Aerobic exercise • Community offering empowerment, opportunity, and security • Economic independence • Effective parenting • Feelings of mastery and control • Feelings of security • Literacy • Positive attachment and early bonding • Positive parent-child relationships • Problem-solving skills • Resilient coping with stress and adversity • Self-esteem • Social and work skills • Social support from family and friends • Adequate sleep • Religious involvement • I Thess 5:16 Rejoice always,¹⁷ pray continually,¹⁸ give thanks in all circumstances; for this is God's will for you in Christ Jesus.

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Slide showing - Vulnerabilities and Protective Factors for Mental Disorders

Please note, the slides are intended to supplement the information found in your textbook. If you are having trouble viewing them, they can also be downloaded by scrolling to the bottom of the screen and clicking on the “Unit 10- Slides” link.

- This activity offers additional descriptions of the disorders discussed in the textbook and provides opportunity to understand

more about anxiety disorders. There is also an excellent write up on the many valid criticisms of being overly dependent on the DSM as a resource.

- In this activity, you are given an overview of depression that explains the causes, describes the diagnostic criteria, and offers some treatment options. The second resource provides an overview of recognizing the signs that a child is struggling due to a disorder.
- This activity presents current in-depth research and general information concerning schizophrenia that will illuminate the complexity of the development and treatment of this disorder.
- Our personalities allow others to predict and anticipate our responses to situations; a person with a “healthy” personality demonstrates a range of coping responses and styles when placed in a stressful situation. However, a disordered personality does not have this kind of adaptability and flexibility. The lack of adaptability and the limited repertoire of coping responses can result in distress for the person and for those around him or her. In this activity, you can gain more insight into defined patterns of personality disorders.

Key Terms Quiz

- Practice quiz to assess how well you know key terms from Chapter 15.
- Not for formal evaluation.

Learning Lab Preparation

- Each topic will provide a question or scenario for you to consider prior to attending your Learning Lab. Be sure to carefully consider each prompt as you will be expected to contribute to the group discussion.

Resources

Here are the resources you will need to complete this unit:

- Krause, M., Corts, D., Smith, S. C., & Dolderman, D. (2018). *Revel for An Introduction to Psychological Science, 2nd Canadian Edition*. Pearson Ed.
- Other resources will be provided online.

10.1 Looking at What is Normal and Anxiety Disorders

We begin this topic by considering the following excerpt:

I avoid it whenever I can. In fact, I fear those days in which I have to experience it—going to the dentist. I know this is a common fear, but the reason for my fear is different from most people's. When I go to the dentist, I pace back and forth in the waiting room, my heart races, I start to sweat and I have some trouble breathing. I know some people have problems with needles, or drills—not so for me. You see, my problem is with X-rays. I know, you are probably thinking, “what could be the problem with x-rays—this guy must really be a baby”. Well, the problem is that I have one of the strongest gag reflexes that my dentist has ever seen (at least so he tells me). When the dentist puts the lead backing in my mouth (you know the cardboard thing that makes sure you don't get cancer, or brain damage, or produce deformed children—at least this is what my dentist tells me), I choke on the piece and gag it up. In addition to being terribly uncomfortable, it is highly embarrassing—not to mention a little scary for all those children in the waiting room listening to the guy “dying” in the dentist's chair. My dentist has tried everything—cutting the backing so it is smaller, having a nurse talk to me to distract my attention, having a nurse down the hall flip the X-ray switch as soon as the backing is in my mouth. Nothing seems to work, and over the past 20 years of going to the dentist, I have become more and more anxious with the experience. Only one solution has seemed to work—letting me put the backing in my mouth myself and taking the picture really fast. (TWU psychology professor, personal communication)*

What is Normal?

As the textbook points out, the definition of what is normal varies depending on culture and circumstances. As you read about various disorders, you may be struck by how similar “disordered” behavior is to normal behavior. (You should also beware of the “medical student syndrome;” the tendency to feel you have the problem you are studying.) In fact, disordered thought and behavior is usually just exaggerated normal behavior perhaps displayed at inappropriate times. For example, how would you diagnose someone who walks back and forth waving his arms and shouting one minute, and sits down and weeps uncontrollably the next? You might think he had a serious mental problem...*that is until you found out he was a basketball coach on the sidelines of a big game

Here is a list of comparisons between normal personality characteristics on the left, and the same type of behavior classified as a personality disorder on the right (*originally published in Harper's, February 1997, by L.J. Davis*). You will learn more about personality disorders in a later section, but for now, you can probably see that the right, “disordered” column could just represent a different perspective on the left, “normal” column:

Personality Style	Personality Disorder
Conscientious - <i>"The Right Stuff"</i>	Obsessive-Compulsive
Self-Confident - <i>"Star Quality"</i>	Narcissistic
Devoted - <i>"The Good Mate"</i>	Dependent
Dramatic - <i>"The Life of the Party"</i>	Histrionic
Vigilant - <i>"The Survivor"</i>	Paranoid
Sensitive - <i>"The Homebody"</i>	Avoidant
Leisurely - <i>"California Dreaming"</i>	Passive-Aggressive
Adventurous - <i>"The Challenger"</i>	Antisocial
Idiosyncratic - <i>"The Different Drummer"</i>	Schizotypal
Solitary - <i>"The Loner"</i>	Schizoid
Mercurial - <i>"Fire and Ice"</i>	Borderline
Self-Sacrificing - <i>"The Altruist"</i>	Self-Defeating
Aggressive - <i>"Top Dog"</i>	Sadistic
Serious - <i>"The Realist"</i>	Depressive

image of chart listing of personality style and personality disorder

This is not to say that psychological diagnoses have no validity. The point is that diagnosis is difficult and sometimes controversial.

Activity: Read and Reflect

The following articles augment your understanding of the descriptions of the disorders discussed in the textbook and provide opportunity to understand more about anxiety disorders. Due to the pervasiveness of disorders, especially anxiety related problems, this information could

prove invaluable in helping yourself and others find hope and help in challenging circumstances. There is also an excellent write up on the many valid criticisms of being overly dependent on the DSM as a resource.

- Psychological Problems and Disorders
- Anxiety Disorders
- Criticism of America's Diagnostic Bible- The DSM

Learning Lab Preparation

Prior to your Learning Lab, take some time to think about the following questions. You will be asked to share your thoughts in this week's Learning Lab:

- *Would you expect Christians to be more mentally healthy than non-Christians? Why or why not?*
- *What about people with other religious/spiritual beliefs?*
- *What about people with no religious/spiritual beliefs?*

10.2 Mood Disorders

Before we consider mood disorders, take moment to read through the following case:

Jane (not her real name) was a married church-going woman. She seemed to live a normal, uneventful life. Her family, however, was living a private hell. At times, Jane would be so depressed that she didn't want to get out of bed. She would mope around the house. She didn't want to see anyone or visit anyone. Her children and husband tried to lift her spirits, but their efforts were all in vain. She believed she was worthless, useless, and her life was meaningless. At other times, Jane was the life of the party. She would make great plans to change the world. She would give huge sums of money to charity and she would go on pointless, spending frenzies. Her husband was forced to cancel their credit cards for fear of personal bankruptcy. When Jane found out about the cards being cancelled she reacted violently. She told her husband that he was old, ugly and worthless, and that she could be with anyone she wanted. In fact, she stated that all the young men are staring at her—"If I wasn't a committed Christian, I'd be leave you to be with one of those young men, they all want me." Her family could no longer stand Jane's mood swings—she was either "pathetic" or "unbearable". After years of mood fluctuations, Jane was finally diagnosed as suffering from Bipolar Mood Disorder. Following medical treatment and counselling, Jane's moods stabilized and the family was again able to live peacefully.

10.3 Depression

Depression is one of the most common psychological problems of all—striking Christians and non-Christians alike. Mental health workers sometimes refer to it as “the common cold” of psychological disorders.

In depression we once again see the link between normal and abnormal behavior. We all feel sad or down sometimes. A diagnosis of depression, however, is an extreme and continuing sadness. You will see more about the criteria for this diagnosis in the textbook and the online resources.

10.4 Heartsick

*Depression Hurts the Heart

Experts have long thought depression could be bad for your heart. A new study demonstrates just how dangerous it can be. Brenda Penninx, a gerontologist at Wake Forest University in Winston-Salem, N.C., and colleagues followed 2,847 people over 55—both with and without heart disease—for four years to trace the effects of depression.

In the end, people with major depression were at least three times as likely as patients who were not depressed to die of heart disease. Even subjects with mild depression experienced a fatality rate that was 50 percent higher than normal.

Penninx isn't sure exactly what the connection is, but since depression can raise stress, and stress triggers an outpouring of the hormone cortisol, this could cause heart rate and blood pressure to rise. Other factors could play a part: Depressed people are less likely to exercise or eat right than those who don't suffer from the malady. "Depression deserves a lot more attention than it usually gets," Penninx warns. "It's a huge cardiac risk factor, so it's crucial to take care of your emotions."—Health (Quoted in Readers Digest, Feb. 2002, p. 27)*

Activity: Read and Reflect

How do you know the difference between depression and normal sadness? In this activity, you are given an overview of depression that explains the causes, describes the diagnostic criteria, and offers some treatment options. Additionally, though children may suffer from a disorder, there are additional challenges in noticing it in them due to their immature language, cognitive, and emotion processing abilities and developmental stage. The second resource provides an overview of recognizing the signs that a child is struggling due to a disorder.

- [Information about Depression](#)

- Mental Illness in Children

Learning Lab Preparation

Prior to your Learning Lab, take some time to think about the following questions. You will be asked to share your thoughts in this week's Learning Lab:

- *Can you think of some examples of biblical characters that apparently suffered from a mood disorder? Describe their behavior?*
- *What do their examples suggest about possible causes? (Hint: Elijah, David, Saul, others?)*

If you are not familiar with biblical personages, give an example from literature or contemporary public life.

10.5 Schizophrenia

Schizophrenia is one of the more devastating psychological illnesses. Schizophrenia is not common, however, it seems to be universal, appearing in cultures all over the world and across history. Some of our earliest writings describe people who seem to have lost touch with reality, who "hear voices," and who produce bizarre speech and behaviours. At some earlier times in history, a person experiencing such symptoms may have been suspected of demon possession or some form of witchcraft. At other times and places, such people might be revered as shamans or as having special connections to the spirit world, and may well have played important roles in the community. Importantly, spiritual contributions to schizophrenia's symptoms are still considered in some religious and cultural interpretations of this disorder.

Schizophrenia in the Bible

But when his heart was lifted up, and his mind hardened in pride, he was deposed from his kingly throne, and they took his glory from him. And he was driven from the sons of men, and his heart was made like the beasts, and his dwelling was with the wild asses; they fed him with grass like oxen, and his body was wet with the dew of heaven, till he knew that the Most High God ruled in the kingdom of men, and that he appointeth over it whomsoever he will. Daniel 5:20-21

The bible gives relatively few accounts of people troubled by mental illness as we would call it today. The above account is of Belshazar, son of Nebuchadnezzar who was killed after losing his metal faculties. Interestingly, his father, Nebuchadnezzar seemed to suffer from a similar loss of functioning:

O King Nebuchadnezzar, to thee it is spoken, The kingdom is departed from thee. And they shall drive thee from men, and thy dwelling shall be with the beasts of the field; they shall make thee to eat grass like oxen, and seven times shall

pass over thee, until thou know that the Most High ruleth in the kingdom of men, and giveth it to whomsoever he will. The same hour was the thing fulfilled upon Nebuchadnezzar, and he was driven from men, and did eat grass like oxen, and his body was wet with the dew of heaven, till his hairs were grown like eagles' feathers, and his nails like birds' claws. Daniel, 4:31b-33

The Split in Schizophrenia

This strange behavior and apparent loss of contact with reality we would probably consider schizophrenia today. Schizophrenia appears in all cultures at about the same rate. Schizophrenia is one of the most serious and debilitating of the psychological disorders. As mentioned in the textbook, schizophrenia is often confused with dissociative identity disorder (multiple personality disorder, popularly known as split personality). *Schizophrenics do not have a split personality. And it is not correct to refer to someone with a “split personality” as schizophrenic.* The “split” (schism) that schizophrenics experience is a split from reality. Schizophrenics may suffer from disorganized thought, paranoid delusions, hallucinations, and many other unusual thought patterns.

Activity: Read and Reflect

Schizophrenia is a truly fascinating condition that continues to draw much attention. This activity presents current in-depth research and general information concerning schizophrenia that will illuminate the complexity of the development and treatment of this disorder.

- **Schizophrenia**

Learning Lab Preparation

Prior to your Learning Lab, take some time to think about the following questions. You will be asked to share your thoughts in this week's Learning Lab:

- *Before the development of modern psychology, how do you think people suffering from schizophrenia were treated? How much better is treatment today?*

10.6 Personality Disorders

Personality disorders are relatively common disorders where the person can function normally, but shows evidence of some difficulty or abnormality in social functioning. Unlike other disorders, the person does not seem to feel there is a difficulty.

Antisocial Personality

Antisocial Personality Disorder (APD) is a pattern of disregard for, and violation of, the rights of others. It can be seen in individuals who have a profound lack of empathy or emotional connection with others, a disregard for others' rights or preferences, and a tendency toward imposing their own desires, often violently, onto others regardless of the consequences for other people or, often when younger, other animals. APD (sometimes referred to as psychopathy) tends to be highly resistant to treatment, in part because individuals with APD are not alarmed or distressed by their actions (although others frequently are), and they are thus rarely, if ever, motivated to change. The following is a short example to illustrate how some people who suffer from APD might present themselves:

A former professor at UBC, Dr. Robert Hare (an internationally known expert on antisocial personality disorders) often conducted research with prisoners diagnosed with antisocial personality disorder. He frequently took graduate students with him to prison to assist in this research. To illustrate the ability of the prisoners to "con" even bright graduate students, he told them that on the way back from prison inevitably the students would tell him that the prisoner they had been dealing with was innocent. They were sure there had been a mistake, and the prisoner had been falsely convicted. Such is the charm and persuasive power of the antisocial personality.

Activity: Read and Reflect

Recall from Chapter 12 that our personalities allow others to predict and anticipate our responses to situations. A person with a "healthy" personality demonstrates a range of coping responses and styles when placed in a stressful situation. However, a disordered personality does not have this kind of adaptability and flexibility. At times, the person doesn't feel they like they have any problems, at other times, the lack of adaptability and the limited repertoire of coping responses can result in distress for the person and for those around him or her. In this activity, you can gain more insight into defined patterns of personality disorders.

- **Personality Disorders**

Key Terms Quiz

In order to review some of the major terms from Chapter 15 in your textbook, take the following unmarked quiz. Although you will not be evaluated on these terms, they will assist you in the assessments for this course.

Learning Lab Preparation

Prior to your Learning Lab, take some time to think about the following questions. You will be asked to share your thoughts in this week's Learning Lab:

- *Do you ever wonder if someone you know seems to have a personality disorder? What are some indications that you have seen that make you curious if there may be a problem? (If you don't know anyone personally, you can describe someone you know about or have seen in a movie/TV show.)*

Assessment

While there is no “formal” assignment that you will be responsible for submitting for Unit 10, you will be expected to participate in discussion during your Learning Lab. Your facilitator will be providing a participation mark based on your contributions. Below is some information to consider prior to attending your Learning Lab:

Learning Lab

Your facilitator will be providing a participation mark based on your contributions for this unit. Below is some information to consider prior to attending your Learning Lab:

Active participation in group exercises, reflection, and critical discourse is an essential component of this course. You are expected to show respect for all members of the course, both in your speech and actions. Contribute by actively observing and listening, raising thoughtful questions, examining relevant issues, building on others’ ideas, analyzing and evaluating the group’s thinking, synthesizing key points, and expanding the group’s perspectives. Take care not to dominate a conversation, giving space for others to speak. When in small groups help maintain the focus, flow, and quality of conversations, and take the initiative to invite others (particularly those who are quiet) to speak.

Rubric for Participation in Learning Labs

Emerging (0-64%)	Developing (65-89%)	Mastering (90-100%)
Never to almost never: Demonstrates active listening (as indicated by disengaged body language and no to rare comments that build on others' remarks), Initiates any contributions in class or small groups, Makes insightful or constructive comments, Helps maintain a supportive space for others to speak.	Sometimes to fairly often: Demonstrates active listening (as indicated by somewhat to often engaged body language and comments that build on others' remarks), Initiates a contribution at least once in a class or small group discussion; Makes insightful or constructive comments, Helps maintain a supportive space for others to speak.	Very often to nearly always: Demonstrates active listening (as indicated by fully engaged body language and comments that build on others' remarks), Initiates more than one contribution in a class or small group discussion, Makes insightful or constructive comments, Creates a space for others to speak and takes initiative to include others.

Checking your Learning

Before you move on to the next unit, check that you are able to:

- Define the key terminology associated with defining and classifying psychological disorders, personality and dissociative disorders, anxiety, obsessive-compulsive, and depressive disorders, and schizophrenia.
- Describe advantages and criticisms associated with the Diagnostic and Statistical Manual of Mental Disorders (DSM-5).
- Apply your knowledge of the mental disorders defense to decide if defendants are criminally responsible for their actions.
- Analyze whether the benefits of labelling psychological disorders outweigh the disadvantages, the status of dissociative identity disorder as a legitimate diagnosis, and whether maladaptive aspects of specific phobias might arise from perfectly normal, healthy behaviours.
- Apply your knowledge of antisocial personality disorder to explain how it could help people succeed in certain professions.

- Describe the different types of anxiety disorders and how anxiety or depressive disorders can be self-perpetuating.
- Apply your knowledge of anxiety, obsessive-compulsive, and depressive disorders, to be alert to people who might benefit from some help, and to be able to identify different forms of schizophrenia.
- Describe how different neurotransmitters affect individuals with schizophrenia and the genetic and environmental contributions to this disorder.
- Analyze claims that schizophrenia is related to genius or violent behaviour.

Chapter 11

Therapy- Part 1

Overview

Units 11 and 12 introduce the exciting, and ever expanding, world of therapy. Today, psychotherapeutic techniques are used to address a range of human conditions- from helping people find hope in overwhelmingly challenging circumstances to people exploring ways to optimize their potentials. Having a therapeutic relationship can be tremendously valuable in a person's life as a therapist should be non-judgmental and have no other agenda than to help a person reach their therapeutic goals. The focus of this unit will be to provide some overview and perspectives on therapy.

Topics

This unit is will delve into the topic of :

- Therapies

Learning Outcomes

By the end of this unit, student's will be able to:

- Define the key terminology associated with mental health treatment, psychological therapies, and biological treatments.
- Describe the major barriers to seeking help for psychological disorders, arguments for and against involuntary treatment, and general approaches to conducting major types of psychotherapy.
- Apply your knowledge to suggest what approach to therapy is likely most appropriate for a given situation, to identify major therapeutic tech-

niques, and which drug therapies could be used for different psychological conditions.

- Analyze whether self-help options, such as popular books, are a useful therapy option, the pros and cons of the major types of psychotherapy and whether St. John's Wort, a popular herbal remedy for depression, works.
- Describe how the drugs described in this module, and the other major medical approaches to therapy, affect brain functioning.

Activity Checklist

Here is a checklist of learning activities you will benefit from in completing this unit. You may find it useful for planning your work:
Read and Reflect

- Read *Krause et al. (2021). Revel for An Introduction to Psychological Science, 3rd Canadian Edition*

- Review *Unit 11- Slides*

[CLICK HERE](#)

An Introduction to Psychological Science - Chapter 16 - Therapies
Biblical Word Study

- Therapy – Gr. Θεραπευω (therapeuō)- to heal, cure; to receive service; to serve, minister to, render service and attendance; to render divine service, worship.
- Save/Rescue – Gr. Σωζω (sōzō) - to save, rescue; to preserve safe and unharmed; to bring safely to; to cure, heal, restore to health; to save, preserve from being lost; to deliver from, set free from; in N.T. To rescue from unbelief, convert; to bring within the pale of saving privilege; to save from final ruin; to be in the way of salvation
- Strength/Strong/Healthy – Gr. ισχυω (ischuō) – to be strong, be well, be in good health; to have power, be able; to have power or efficiency, avail, be valid; to be of service, be serviceable; to prevail
- Comfort – Gr. παρακαλεω (parakaleō) to animate (to fill with breath, to make alive, to give life to, to inspirit, to rouse), encourage, comfort, console; to be cheered, comforted
- Proverbs 14:10 (NIV):
– ¹⁰ Each heart knows its own bitterness, and no one else can

share its joy.

- Proverbs 13:12 (NIV):
 - ¹² Hope deferred makes the heart sick, but a longing fulfilled is a tree of life.

True or False?

- T F 1. “Psychoanalysis” is another word for “psychotherapy.”
- T F 2. Regardless of their theoretical orientation, therapists agree that self-awareness is the key to overcoming psychological problems.
- T F 3. The most effective treatment for alcoholism is to associate alcoholic drinks with a nausea-producing drug.
- T F 4. Most people who suffer psychological problems become worse without therapy.
- T F 5. Daily exposure to bright light successfully counteracts winter depression.
- T F 6. The various therapies are so different that it is impossible to find any commonalities.
- T F 7. The training and experience of the therapist are crucial factors in determining therapeutic success.
- T F 8. The use of drugs has liberated hundreds of thousands of people with severe psychological disorders from hospital confinement.
- T F 9. Many people have found relief from manic-depressive mood swings with a daily dose of a cheap salt.
- T F 10. Electroconvulsive therapy is no longer used in the treatment of psychological disorders.

Therapist Role-Play Activity

- Get into groups of two (or three) preferably with someone whom you do not know or do not know well
- To start, choose who in your group will be the counsellor, the client, and (if 3 people) the observer
- What will be discussed is a current struggle you are having with

university life

- About 5 mins of interaction each

Modules

16.1: Treating Psychological Disorders

16.2: Psychological Therapies

16.3: Biomedical Therapies



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Slide showing - Modules for this chapter

Learning Objectives

- Know the key terminology associated with mental health treatment.
- Understand the major barriers to seeking help for psychological disorders.
- Understand the arguments for and against involuntary treatment.
- Apply your knowledge to suggest what approach to therapy is likely most appropriate for a given situation.
- Analyze whether self-help options, such as popular books, are a useful therapy option.

Mental Health Providers

- Clinical psychologists (p. 606)
- Counselling psychologists (p. 606)
- Clinical social workers

- Psychiatric nurses

- Psychiatrists (p. 606)

Inpatient Treatment and Deinstitutionalization

- 1400s
 - First institutions built; brutal conditions

- End of the 1800s

- Overcrowded asylums, ineffective treatments

- 1960s
 - Deinstitutionalization (p. 607)

- Residential treatment centres (p. 607)

Involuntary Treatment

- May be compelled to enter treatment

- Highly erratic or disturbing behaviour

- Controversial issue

- More common for some ethnic groups and socioeconomic classes

The Importance of Community Psychology

- Community psychology (p. 608)
 - Meeting needs of those with less severe problems
 - * Homelessness

- Substance abuse

- Financial barriers

- Stigma

PSYCH @ The University Mental Health Counselling Centre

- 15-20% of college students showing symptoms
 - 50% increase in past 2 decades

- Counselling centres

- Vary by size of school and funding

- Waiting list

Evaluating Treatments

- Empirically supported treatments (p. 609)

- Random assignment
- Double-blind
- Limitations
 - * No double-blind

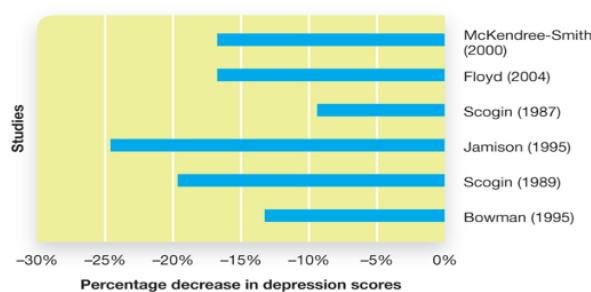
* Therapeutic alliance (p. 609)

Working the Scientific Literacy Model: Can Self-Help Treatments be Effective?

- What do we know about the availability of self-help treatments?
- How can science test the effectiveness of self-help treatments?
 - Bibliotherapy (p. 610)

Working the Scientific Literacy Model: Can Self-Help Treatments be Effective? (2 of 3)

Figure 16.1 Results of Six Studies Evaluating the Self-Help Book *Feeling Good*
 Research on the book *Feeling Good* shows successful results in reducing symptoms of depression. Comparisons across six studies (identified by author name and publication date) indicate statistically significant improvement in each case (Anderson et al., 2005).



SOURCE: Based on Anderson, L., Lewis, G., Araya, R., Elgie, R., Harrison, G., . . . & Williams, C. (2005). Self-help books for depression: How can practitioners and patients make the right choice? *British Journal of General Practice*, 55, 387–392.

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*Slide showing - Results of Six Studies Evaluating the Self-Help Book *Feeling Good**

- Can we critically evaluate this evidence?
 - Important to check sources

- Why is this relevant?
 - Convenient, low-cost options

– Professional help may be needed

Barriers to Psychological Treatment: Expense and Availability

- Disorders are ambiguous
- Stigma about mental illness
- Attitudes toward treatment
- Gender roles
- Culture
- Geographical barriers
- Financial barriers

Learning Objectives

- Know the key terminology related to psychological therapies.
 - Understand the general approaches to conducting major types of psychotherapy.
 - Apply your knowledge to identify major therapeutic techniques.
 - Analyze the pros and cons of the major types of psychotherapy.
- Insight Therapies
- Insight therapies (p. 615)
 - Psychodynamic therapies (p. 615)

Psychoanalysis: Exploring the Unconscious (1 of 2)

Table 16.2 Core Ideas Forming the Basis of Psychoanalysis

- Adults' psychological conflicts have their origins in early experiences.
- These conflicts affect the thoughts and emotions of the individual, and their source often remains outside of conscious awareness.
- The unconscious conflicts and their effects are called neuroses (anxieties).
- By accessing the unconscious mind, the analyst and patient can gain a better understanding of the early conflicts that led to neuroses.
- Once the conflicts are brought to the surface, the analyst and the patient can work through them together.

Slide showing - Core Ideas Forming the Basis of Psychoanalysis
Psychoanalysis: Exploring the Unconscious

- Accessing the unconscious
 - Free association (p. 615)
 - Dream analysis (p. 615)

- Can lead to:
 - Resistance (p. 615-616)
 - Transference (p. 616)

Modern Psychodynamic Therapies

- Object relations therapy (p. 616)
 - Influenced by Freud's work
 - Gain insight into early relationships issues

Humanistic-Existential Psychotherapy

Table 16.3 Contrasting Psychoanalytic and Humanistic Views of Major Psychological Issues and Debates

Issue	Psychoanalysis	Humanistic Therapy
Conscious versus unconscious	Focuses on unconscious drives	Focuses on conscious experience
Determinism versus free will	Behaviour is determined by repressed sexual and aggressive instincts.	Behaviour is chosen freely.
Weaknesses versus strengths	Everyone has neuroses.	Everyone has strengths.
Responsibility for change	The analyst interprets and explains to the client what is wrong.	The therapist asks the client what is wrong and attempts to help clarify issues.
Mechanism of change	Insight into unconscious conflicts allows problems to be worked through.	Unconditional positive regard allows a person to heal and become more authentically themselves.

Slide showing - Contrasting Psychoanalytic and Humanistic Views of Major Psychological Issues and Debates

Evaluating Insight Therapies

- Psychodynamic therapies have some empirical support
 - Lack of proper design and control conditions
 - Promise for panic disorder, dependence on opiate drugs, and BPD
- Person-centred therapy
 - Importance of therapeutic relationship supported
 - Emotion-focused therapy

Behavioural, Cognitive, and Group Therapies

- Behavioural therapies (p. 618)
 - Behaviours are learned
 - * Adaptive and maladaptive

Systematic Desensitization (1 of 2)

Table 16.4 Applying Steps of Systematic Desensitization to Fear of Public Speaking

1. Build an anxiety hierarchy. This involves the therapist assisting the client in creating a list of stimuli that arouse fear responses, starting with the stimulus or situation that evokes the least amount of anxiety and ending with the stimulus that elicits the most anxiety.

Think about and visualize:

1. Thinking about the presentation topic
2. Writing down ideas for the presentation
3. Doing library research for a presentation
4. Preparing slides and note cards
5. Practising the presentation alone
6. Practising the presentation with a few friends
7. Travelling to campus to give the presentation

Slide showing - Applying Steps of Systematic Desensitization to Fear of Public Speaking

Systematic Desensitization (2 of 2)

Table 16.4 Applying Steps of Systematic Desensitization to Fear of Public Speaking

8. Sitting in the classroom waiting to be called for your turn
9. Walking up to the front of the room
10. Standing up at the podium and looking out at the audience
11. Beginning to speak; delivering the first couple of lines
2. Relaxation training. During this phase, the client learns to respond to relaxation suggestions from the therapist as they begin to work through the hierarchy. This is typically done using mental imagery while the client is visiting the therapist's office; actual props may be used in some cases (e.g., a podium that the person can stand in front of).
3. Work through the hierarchy. Steps 1 and 2 are combined here as the therapist works through the entire hierarchy, usually over several sessions, until the client is able to manage the anxious feelings while continuing to engage in the relevant behaviours.

Slide showing - Applying Steps of Systematic Desensitization to Fear of Public Speaking

Working the Scientific Literacy Model: Virtual Reality Therapies

- What do we know about virtual reality exposure?
 - Virtual reality exposure (VRE) (p. 619)
 - * Imagery
 - * Real-time approximation
 - * Treating PTSD
- How can scientists study virtual reality exposure?
- Can we critically evaluate this evidence?
 - VRE can outperform standard approaches
 - More effective for some groups of patients
- Why is this relevant?
 - Treating veterans
 - Close control over exposure

Aversive Conditioning

- Aversive conditioning (p. 620)
 - Antabuse
 - * Reduce problem drinking
 - * Causes nausea and vomiting
 - * Requires motivation and willpower

Cognitive-Behavioural Therapies

- Cognitive-behavioural therapy (p. 621)
 - Feelings involved with exposure
 - Cognitive restructuring
 - * Shift in beliefs and interpretations
 - Relaxation techniques
 - Stress inoculation training
 - Applying Cognitive-Behavioural Therapy to the Cognitive Symptoms of Depression
 - Internal attributions
 - Stable attributions

- Global events

Mindfulness-Based Cognitive Therapy

- Integration of meditation and CBT
- Mindfulness-Based Cognitive Therapy (p. 622)

- Decentring (p. 623)

Group and Family Therapies

- Group Therapy
 - Less expensive

- Organized to fit needs

- Systems approach (p. 624)

Evaluating Cognitive-Behavioural Therapies

- Behavioural therapies effective for:
 - Anxiety disorders
 - Certain problematic behaviours
- Cognitive-behavioural therapy effective for:
 - Depression
 - Anxiety and eating disorders

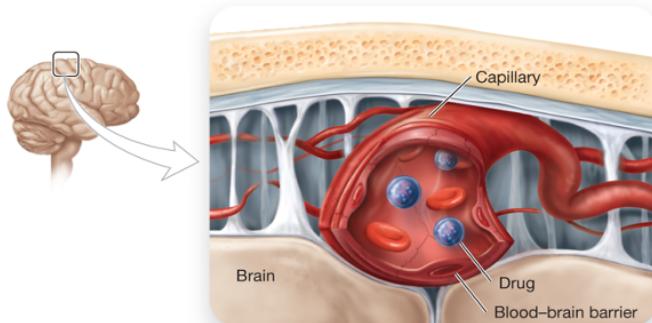
Learning Objectives

- Know the key terminology associated with biological treatments.
- Understand how the drugs described in this module affect brain functioning.
- Understand the other major medical approaches to therapy.
- Apply your knowledge of drug therapies to different psychological conditions.
- Analyze whether MDMA (Ecstasy) is an effective treatment for posttraumatic stress disorder (PTSD).

Drug Treatments

Figure 16.6 How Psychotropic Drugs Reach the Brain

In order to affect the brain in the desired way, psychotropic drugs must cross the blood-brain barrier, a network of densely packed cells that restrict the flow of substances between the capillaries and brain cells.



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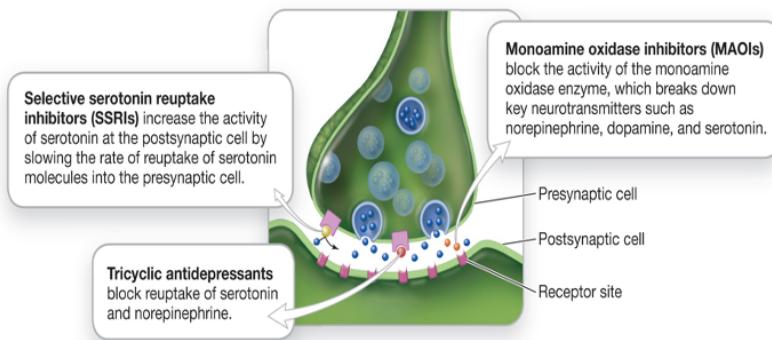
16 - 40

Slide showing - How Psychotropic Drugs Reach the Brain

Antidepressants

Figure 16.7 Antidepressant Effects at the Synapse

The major antidepressant drugs have different ways of increasing the transmission of neurotransmitters such as serotonin, dopamine, and norepinephrine at the synapses.



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Slide showing - Antidepressant Effects at the Synapse

MYTHS IN MIND: Antidepressant Drugs are Happiness Pills

- Antidepressants alleviate depression

- Do not make people happier
- High doses do not produce a high
 - * Weeks to work

Working the Scientific Literacy Model: Using MDMA (Ecstasy) to Treat Posttraumatic Stress Disorder (PTSD)

- What do we know about using MDMA to treat PTSD?
 - Treatment program has 3 components
- What have scientific studies found about MDMA and PTSD?
 - Effective and long-lasting
 - Effects on neurotransmitters
- Can we critically evaluate this evidence?
 - Safety?
 - Addiction?

- Why is this relevant?
 - Another option for treatment

Antianxiety Drugs and Antipsychotic Drugs

- Antianxiety drugs (p. 630)
 - Xanax, Valium, and Ativan
 - Affect activity of GABA
- Antipsychotic drugs (p. 632)
 - Original medicines blocked dopamine receptors
 - Tardive Dyskinesia (p. 632)
 - Atypical antipsychotics (p. 632)

Evaluating Drug Therapies

- Drugs most effective with other types of therapy
- Antidepressants increasingly accepted
 - 50-60% benefit
 - * 30% improvement with placebo

- Psychotherapy
 - 50-60% benefit

Technological and Surgical Methods

- Neurologists in 1800s and early 1900s

- Experimented with removing regions
 - * Frontal Lobotomy (p. 633)
- Antonio Moniz
 - Leucotomy (p. 633)
- Walter Freeman
 - Ice pick
- Dwindling popularity of frontal lobotomies in 1950s

Focal Lesions

- Severe psychiatric problems
 - All other methods failed
 - Focal lesions (p. 634)
 - * Anterior cingulate cortex

Electroconvulsive Therapy

- Electroconvulsive therapy (ECT) (p. 635)
 - Introduced in 1930s
 - Severe cases
 - Mild side effects

- Why does it work?

Transcranial Magnetic Stimulation and Deep Brain Stimulation

- Repetitive transcranial magnetic stimulation (rTMS) (p. 635)
 - Reduces depressive symptoms
 - No anaesthesia, seizure, or cognitive impairments
 - May help for symptoms of schizophrenia
- Deep brain stimulation (DBS) (p. 636)
 - Thin electrode-tipped wires
 - Instantaneous results on depression
 - Side effects

Please note, the slides are intended to supplement the information found in your textbook. If you are having trouble viewing them, they can also be downloaded by scrolling to the bottom of the screen and clicking on the “Unit 11- Slides” link.

- For many people unfamiliar with the journey of counselling, find-

ing suitable resources may feel daunting. It is important to know that there are many different approaches designed to help you accomplish the growth goals you have for your life. In this activity, you will have the opportunity to see some treatment options for a wide variety of conditions. Additionally, there is a resource on different theoretical approaches to behavior change, and a link to some information concerning the integration of Christianity and psychotherapy.

Learning Lab Preparation

- Each topic will provide a question or scenario for you to consider prior to attending your Learning Lab. Be sure to carefully consider each prompt as you will be expected to contribute to the group discussion.

Resources

Here are the resources you will need to complete this unit:

- Krause, M., Corts, D., Smith, S. C., & Dolderman, D. (2018). *Revel for An Introduction to Psychological Science, 2nd Canadian Edition*. Pearson Ed.
- Other resources will be provided online.

11.1 Therapies- Part 1

Psychological Therapies

Psychological therapies, or psychotherapies, are a general class of therapies that deal with the psychological (mental/behavioural) world of people with disorders.

These therapies are generally contrasted with biomedical approaches, which deal more with the biological world of the individual. Biomedical therapies focus on altering a person's biology to effect a change in the person's psychology.

Eclectic Approach

The eclectic approach is an approach that values the diversity of treatment approaches. Eclectic approaches deal with psychology and biology. In addition, various types of psychotherapies may be employed. Eclectic therapy approaches are becoming very popular.

A Sin Problem?

*“Many Christians are not satisfied with viewing psychological disorders as either illnesses or nothing but thought and behavior problems. They feel that both

of these approaches are inadequate because they omit very important moral and spiritual questions. Consequently, the important issue of moral responsibility is not dealt with adequately.

They feel that since humanity's most basic problem is alienation from God as a result of sin, no other difficulty can be dealt with until the relationship with God has been restored. Thus the first goal of therapy is to bring the client to the place of acknowledging his or her need, and asking for divine forgiveness through Jesus Christ. Once the client has placed his or her trust in God, and is operating within the same religious conceptual framework as the therapist, therapy can then proceed to the identification of specific disturbances of thought and behavior. These are seen as examples of sin in that the individual is either acting in a sinful way towards others, or is harboring sinful thoughts and attitudes within. The therapist will assist the individual to identify, confess, and forsake these sins. The goal of therapy is seen primarily in terms of spiritual growth and a "closer walk with God."*

Sin Only?

In a work for Christian counselors, Koteskey (1983) gives the example of his eighteen month old son who developed an intense fear of dogs after two unpleasant experiences with them. Even the fact that the child was too young to talk did not prevent a fellow Christian psychologist from concluding that he had a spiritual problem. We should recognize that not every problem is necessarily a spiritual one. Just as a disturbance may have a purely biological cause, so too it may have a simple psychological (learning) explanation. Information gained from the study of animals may be helpful in the understanding of psychological problems as it is often vital in understanding biological problems. (*Both excerpts from Psychology and Christianity by Ronald Philipchalk*)

Activity: Read and Reflect

For many people unfamiliar with the journey of counselling, finding suitable resources may feel daunting. It is important to know that there are many different approaches designed to help you accomplish the growth goals you have for your life. In this activity, the first resource, Psych Central is the oldest peer-reviewed psychology and mental health network on the Internet. Established in 1992, originally it was an index to mental health. Now it gives you the opportunity to see some treatment options for a wide variety of conditions. Additionally, there is a resource on different theoretical approaches to behavior change, and a link to some information concerning the integration of Christianity and psychotherapy.

- [PsychCentral](#)

- Behaviour Online

- Integration Models

Learning Lab Preparation

Prior to your Learning Lab, take some time to think about the following questions. You will be asked to share your thoughts in this week's Learning Lab:

- *What is your view of the role of sin (or questionable moral behaviours) or other religious/spiritual beliefs in the treatment of psychological disorders?*
- *What kinds of religious/spiritual beliefs could lead to greater feelings of guilt/shame and increased psychological disorder?*

As we approach our final unit, please take a moment to look ahead to the “Term Paper” tab. Here you will find important information that ties to completing the course. It is important to begin preparing now, for these final assessments, in order to manage your time and avoid being overwhelmed. Not only will you have to complete your Quiz #3 at the end of Unit 12, but you will also be responsible for submitting a Term Paper and writing a Final Exam- it is strongly recommended that you begin planning now!

Assessment

While there is no “formal” assignment that you will be responsible for submitting for Unit 11, you will be expected to participate in discussion during your Learning Lab. Your facilitator will be providing a participation mark based on your contributions. Below is some information to consider prior to attending your Learning Lab:

Learning Lab

Your facilitator will be providing a participation mark based on your contributions for this unit. Below is some information to consider prior to attending your Learning Lab:

Active participation in group exercises, reflection, and critical discourse is an essential component of this course. You are expected to show respect for all members of the course, both in your speech and actions. Contribute by actively observing and listening, raising thoughtful questions, examining relevant issues, building on others' ideas, analyzing and evaluating the group's thinking, synthesizing key points, and expanding

the group's perspectives. Take care not to dominate a conversation, giving space for others to speak. When in small groups help maintain the focus, flow, and quality of conversations, and take the initiative to invite others (particularly those who are quiet) to speak.

Rubric for Participation in Learning Labs

Emerging (0-64%)	Developing (65-89%)	Mastering (90-100%)
Never to almost never: Demonstrates active listening (as indicated by disengaged body language and no to rare comments that build on others' remarks), Initiates any contributions in class or small groups, Makes insightful or constructive comments, Helps maintain a supportive space for others to speak.	Sometimes to fairly often: Demonstrates active listening (as indicated by somewhat to often engaged body language and comments that build on others' remarks), Initiates a contribution at least once in a class or small group discussion; Makes insightful or constructive comments, Helps maintain a supportive space for others to speak.	Very often to nearly always: Demonstrates active listening (as indicated by fully engaged body language and comments that build on others' remarks), Initiates more than one contribution in a class or small group discussion, Makes insightful or constructive comments, Creates a space for others to speak and takes initiative to include others.

Checking your Learning

Before you move on to the next unit, check that you are able to:

- Define the key terminology related to health psychology, stress and illness, and coping and well-being.
- Describe how genetic and environmental factors influence obesity, how physiological reactions that occur under stress, and how the immune system is connected to stress responses.
- Apply your knowledge of persuasion and health to examine the effectiveness of different types of cigarette warnings, and of the beneficial effects of optimism to help you reframe stressful situations as positive opportunities.
- Analyze whether media depictions of smoking affect smoking

in adolescents, the claim that ulcers are caused by stress, and whether activities such as relaxation techniques, meditation, and biofeedback actually help people cope with stress and problems.

- Describe how control over the environment and positive and negative styles of coping influences well-being.

Chapter 12

Therapy - Part 2

Overview

As we arrive at our final unit, be sure to look ahead to the “Term Paper” tab to ensure you are organizing your workload in a manageable way.

Our final unit expands upon Unit 11 and introduces the exciting, and ever expanding, world of therapy. Today, psychotherapeutic techniques are used to address a range of human conditions, from helping people find hope in overwhelmingly challenging circumstances to people exploring ways to optimize their potentials. Having a therapeutic relationship can be tremendously valuable in a person’s life as a therapist should be non-judgmental and have no other agenda than to help a person reach their therapeutic goals. This final unit of the course will continue to build upon Unit 11 by discussing the effectiveness of therapy, some of the biological treatment options, and some tips on preventing problems.

Topics

This unit will be divided into the following topics:

1. Evaluating Therapy
2. Biological Treatments
3. Preventing Problems

Learning Outcomes

By the end of this unit, student’s will be able to:

- Define the key terminology associated with mental health treatment, psychological therapies, and biological treatments.

- Describe the major barriers to seeking help for psychological disorders, arguments for and against involuntary treatment, and general approaches to conducting major types of psychotherapy.
- Apply your knowledge to suggest what approach to therapy is likely most appropriate for a given situation, to identify major therapeutic techniques, and which drug therapies could be used for different psychological conditions.
- Analyze whether self-help options, such as popular books, are a useful therapy option, the pros and cons of the major types of psychotherapy and whether St. John's Wort, a popular herbal remedy for depression, works.
- Describe how the drugs described in this module, and the other major medical approaches to therapy, affect brain functioning.

Activity Checklist

Here is a checklist of learning activities you will benefit from in completing this unit. You may find it useful for planning your work:

Read and Reflect

- Read Krause et al. (2021). *Revel for An Introduction to Psychological Science, 3rd Canadian Edition* //todo #8
- Review *Unit 12 - Slides*

Please note, the slides are intended to supplement the information found in your textbook. If you are having trouble viewing them, they can also be downloaded by scrolling to the bottom of the screen and clicking on the “Unit 12 - Slides” link.

- This activity gives you an opportunity to explore the American Psychological Association website. In many ways, the APA leads the discipline and profession of psychology. It is an excellent resource for finding information on a number of areas of psychology, contemporary issues in psychology, a plethora of resources for self-help. They also have the opportunity for students to become student affiliates and enjoy member privileges that will contribute to your development as a professional.
- It is important when considering biological treatments to receive input from more than one professional and to do adequate research on the treatment to understand the potential risks and benefits. This activity serves as a resource for electroconvulsive

therapy (ECT), transcranial magnetic stimulation (TMS), and vagus nerve stimulation (VNS) as treatments for depression. It also has a link to explore an alternative therapy known as neurotherapy/neurofeedback, which is a safe (when administered by a well-trained professional), non-invasive option for a number of different developmental and psychological matters.

- Looking intently at how you are spending your time and taking preventative steps to contribute to your mental/emotional health and overall well-being is a great gift to give to yourself (and ultimately others). This activity offers a resource where you can find information on a variety of (usually research-based) preventative strategies. Moreover, if you decide that you would like to explore therapy for yourself, there are resources here to inform you as to how to find a suitable therapist and what some of your rights and responsibilities are in therapy.

Learning Lab Preparation

- Each topic will provide a question or scenario for you to consider prior to attending your Learning Lab. Be sure to carefully consider each prompt as you will be expected to contribute to the group discussion.

Assessment

- Upon completing this unit, you will be writing your Quiz #3. This will be 60 multiple choice questions that cover content learned since Unit 9.

After completing Unit 12, you will be responsible for writing a final exam and submitting a term paper.

Resources

Here are the resources you will need to complete this unit:

- Krause, M., Corts, D., Smith, S. C., & Dolderman, D. (2018). *Revel for An Introduction to Psychological Science, 2nd Canadian Edition*. Pearson Ed.
- Other resources will be provided online.

12.1 Evaluating Therapy

Therapy?

In a previous chapter, we looked at various ways of understanding personality. In the first part of this chapter we have been considering different therapies that grow out of these personality theories. Now it is time to ask the question, “Does it work? Is psychotherapy effective?” The answer seems to be “Yes,” but

there are qualifications. First, many people who do not receive treatment get better anyway. And second, placebo treatments also produce improvements, as do non-professional caring relationships. As David Myers says,

"All types of psychotherapy seem to offer three benefits: new hope, a fresh perspective, and an empathic, trusting, caring relationship." (p. 592)

When you stop and think about it, isn't this what a good friend offers? Maybe if we all experienced (and offered) this kind of friendship, therapists wouldn't be so much in demand.

Therapy in Other Cultures

The process of psychotherapy generally assumes a cultural value of sharing your inner feelings and problems with another individual. David Ho observes that in the culture of Hong Kong, it is a sign of weakness to talk about one's problems and to reveal much of one's self. This cultural background influences the style of therapy and the process of psychotherapy. How would you proceed if you were a therapist?

Paul Pedersen (1985; 1987; 2000) suggests that we do not need to look at cultures outside North America to see differences in the process of psychotherapy. He suggests that different sub cultural minorities within North America approach psychotherapy with different values and different expectations. Native North American cultures, Asian immigrants, Hispanics, and Afro-Americans have different approaches to the process of psychotherapy. A therapist needs to be aware of these cultural differences to perform effectively in the therapeutic situation.

Activity: Read and Reflect

As mentioned earlier, this activity gives you an opportunity to explore the American Psychological Association (APA) website. In many ways, the APA leads the discipline and profession of psychology. It is an excellent resource for finding information on a number of areas of psychology, contemporary issues in psychology, a plethora of resources for self-help. They also have the opportunity for students to become student affiliates and enjoy member privileges that will contribute to your development as a professional. Follow the link below:

- **American Psychological Association**

Learning Lab Preparation

Prior to your Learning Lab, take some time to think about the following questions. You will be asked to share your thoughts in this week's Learning Lab:

- *Do you think an empathic, trusting, caring friend could*

be as effective as a trained psychotherapist or counselor?

12.2 Biological Treatments

Though there are a number of treatments options within the field of psychology, there are two basic treatment models:

1. The Wellness Model
2. The Medical Model.

The Wellness Model will look intently, and holistically, at a number of areas of a person's life (thoughts/emotions, relationships, work/academics, developmental stage, nutrition, activity/leisure, and sleep, to name a few) and illuminate the client's strengths and resources to help them find a way to overcome challenges and lead a more fulfilling life. Many of the psychotherapeutic approaches looked at, thus far, operate on this model.

The Medical Model, however, is based on symptom recognition, (differential) diagnosis, prognosis, and often a pharmacological support and possibly an invasive or non-invasive procedure. The topic of biological treatments is based on the medical model.

Medical Treatments

Although psychotherapy in its various forms has grown in importance over the past generation, people are still more inclined to seek the help of medical professionals over mental health professionals for their psychological concerns. One of the greatest changes in the way we have treated psychological disorders has been through the discovery and use of various drugs. In this section, we consider the various biomedical therapies that are available for psychological disorders.

Not a Panacea

All of the biological therapies produce side effects, some of them permanent. Since the brain cannot regenerate itself, psychosurgery is irreversible; ECT destroys brain cells, producing memory loss, some of which is permanent; virtually all drugs have side effects besides the dependency produced, and some of these are permanent. (For example, one class of antipsychotic drugs, the phenothiazines, can produce a permanent and irreversible muscle disorder, particularly after massive long-term use. This disorder, called tardive dyskinesia, is evidenced by involuntary movements of the face, limbs, and trunk.) Furthermore, the unknown basis of the effects of many of these techniques (e.g., ECT, and some drugs), and the exploratory nature of others (psychosurgery) should make

us at least a little skeptical. (A further controversy surrounding the use of physiological therapies, particularly, ECT, concerns their forced administration to involuntary patients.)

Activity: Read and Reflect

It is important, when considering biological treatments, to receive input from more than one professional and to do adequate research on the treatment to understand the potential risks and benefits. This activity serves as a resource for electroconvulsive therapy (ECT), transcranial magnetic stimulation (TMS), and vagus nerve stimulation (VNS) as treatments for depression. It also has a link to explore an alternative therapy known as neurotherapy/neurofeedback, which is a safe (when administered by a well-trained professional), non-invasive option for a number of different developmental and psychological matters. To learn more, read below:

- **Electroconvulsive Therapy and Other Depression Treatments**
- **International Society for Neuroregulation and Research**

Learning Lab Preparation

Prior to your Learning Lab, take some time to think about the following questions. You will be asked to share your thoughts in this week's Learning Lab:

- *As biological influence in psychological disorders becomes more obvious, what are the implications for psychologists and “talk therapy?”*
- *Will biological therapies eventually replace old style talk therapies?*

12.3 Preventing Problems

A Little Help When You Need It...

The textbook discusses the value of prevention on a broad level, including environmental changes. Here, we take a more personal look at how you might go about dealing with major problems or just simple blockages in your pathway to growth.

We all need help from time to time, whether we get it from family, friends, or paid professionals. Professional help can be a real boost. It might be testing to clarify career directions, sharing a relationship issue with a sympathetic listener, or in-depth study of a long-term problem. A trained helper provides an objective perspective and an empathetic ear.

An Ounce of Prevention

Being aware of the possible causes of psychological problems as well as the appropriate treatments can help you avoid similar difficulties in your own life. For example you can:

- Not bury and deny strong emotions (psychodynamic view)
- Take responsibility for your feelings & promote growth (humanistic view)
- Associate positive consequences with desirable actions and negative results with undesirable ones (behavioral view)
- Avoid negative self-talk in favor of positive (cognitive view)
- Cultivate empathic, trusting, caring relationships
- Take steps to ensure a healthy body

Activity: Read and Reflect

Looking intently at how you are spending your time and taking preventative steps to contribute to your mental/emotional health and overall well-being is a great gift to give to yourself (and ultimately others). This activity offers a resource where you can find information on a variety of (usually research-based) preventative strategies. Moreover, if you decide that you would like to explore therapy for yourself, there are resources here to inform you as to how to find a suitable therapist and what some of your rights and responsibilities are in therapy.

- Psychology Help Center
- How to Choose a Therapist
- Rights and Responsibilities in Psychotherapy

Learning Lab Preparation

Prior to your Learning Lab, take some time to think about the following questions. You will be asked to share your thoughts in this week's Learning Lab:

- *What role do your religious or other beliefs play in your efforts to avoid psychological difficulties and promote growth?*
- *Do your beliefs affect your choice of the kind of help you would look for?*

Assessment

In addition to your participation in this unit's Learning Lab, you will also be responsible for completing **Quiz #3** - more information can be found by scrolling down to the bottom of the page.

Active participation in group exercises, reflection, and critical discourse is an essential component of this course. You are expected to show respect for all members of the course, both in your speech and actions. Contribute by actively observing and listening, raising thoughtful questions, examining relevant issues, building on others' ideas, analyzing and evaluating the group's thinking, synthesizing key points, and expanding the group's perspectives. Take care not to dominate a conversation, giving space for others to speak. When in small groups help maintain the focus, flow, and quality of conversations, and take the initiative to invite others (particularly those who are quiet) to speak.

Rubric for Participation in Learning Labs

Emerging (0-64%)	Developing (65-89%)
Ner to almost never: Demonstrates active listening (as indicated by disengaged body language and no to rare comments that build on others' remarks), initiates any contributions in class or small groups, Makes insightful or constructive comments, Helps maintain a supportive space for others to speak.	Sometimes to fairly often: Demonstrates active listening (as indicated by somewhat to often engaged body language and comments that build on others' remarks), Initiates a contribution at least once in a class or small group discussion; Makes insightful or constructive comments, Helps maintain a supportive space for others to speak.

Quiz #3

Your instructor will provide additional instructions. Student's will be provided with one attempt. You will be provided information about when the quiz will open so you can begin.

To begin your quiz, click on the **Quiz #3** tab at the bottom of the screen.

REMEMBER: You are also responsible for two final assessments found on the "Final Assessments" page

Checking your Learning

Before you move on to the next unit, check that you are able to:

- Define, and apply, the key terminology related to health psychology, stress and illness, and coping and well-being.
- Describe how genetic and environmental factors influence obesity, how physiological reactions that occur under stress, and how the immune system is connected to stress responses.
- Apply your knowledge of persuasion and health to examine the effectiveness of different types of cigarette warnings, and of the beneficial effects of optimism to help you reframe stressful situations as positive opportunities.
- Analyze whether media depictions of smoking affect smoking in adolescents, the claim that ulcers are caused by stress, and whether activities such as relaxation techniques, meditation, and biofeedback actually help people cope with stress and problems.
- Describe how control over the environment and positive and negative styles of coping influences well-being.

Chapter 13

Final Assessments

As mentioned in the previous units, student's will be responsible for completing two final formal assessment. This page will provide an outline of what is expected for your Term Paper.

Assignment Overview

As Christians and as psychologists, it is crucial that we are able to critically evaluate psychological research. The main purpose of this assignment is to provide you with an opportunity to utilize your skills in research design and analysis as well as to practice your interpretation and critical analysis skills. You will also begin to utilize formatting guidelines specific to an academic discipline. In this case, you will use those provided by the American Psychological Association (APA).

13.1 Term Paper

The first of your final assessments will be to submit a term paper. This term paper will require you to call upon information you have learned throughout the entire course - in particular, this term paper will continue to build upon the skills you applied in writing your **Writing Assignment #1** and **Writing Assignment #2** submissions. Additional resources will be provided at the bottom of this page - they are intended to support the development of your paper.

STEP 1: Choose an Article

Select one of the following topics from the course. Topics include language development, social roles and obedience, ADHD & Autism, emotional intelligence,

and cognitive behavioral therapy. You should familiarize yourself with the topic by browsing through the textbook and lecture notes (if we have already covered it in class). You should then search for a journal article of interest to you that falls within this topic. You should identify this article as being either a true experiment or a non-experiment. Using *PSYCInfo* via the TWU library website, use keywords to search for articles. More details on how to do this will be provided in class. Choose articles that you find interesting and are able to understand. Some articles can be jargon-filled and complicated, so it is in your best interest to choose one that you will be able to read and write about.

STEP 2: Summarize Your Article

After reading the article, you should begin to summarize the main points. Just as you would describe the study if you were having a casual conversation with someone, you should summarize the study so that it is brief and easy to understand. You should summarize the article in your own words. Copying sections from the article is considered to be plagiarism. A description of each section of an article is provided below:

Introduction

In their introduction, the author(s) will describe previous research. In your summary indicate the main findings of that previous research. Additionally, in the introduction the author(s) will describe the purpose of the study they conducted and how it relates to the previous research. In your summary you should identify the question that the author(s) were trying to answer and the hypotheses they were evaluating.⁴

//todo #9

Activity Checklist

Here is a checklist of learning activities you will benefit from in completing this unit. You may find it useful for planning your work:

Read and Reflect

- Read *Krause et al. (2021). Revel for An Introduction to Psychological Science, 3rd Canadian Edition*

//todo #10 - Review Unit 12 - Slides

Please note, the slides are intended to supplement the information found in your textbook. If you are having trouble viewing them, they can also be downloaded by scrolling to the bottom of the screen and clicking on the “Unit 12 - Slides” link.

- This activity gives you an opportunity to explore the American Psychological Association website. In many ways, the APA leads the discipline and profession of psychology. It is an excellent re-

source for finding information on a number of areas of psychology, contemporary issues in psychology, a plethora of resources for self-help. They also have the opportunity for students to become student affiliates and enjoy member privileges that will contribute to your development as a professional.

- It is important when considering biological treatments to receive input from more than one professional and to do adequate research on the treatment to understand the potential risks and benefits. This activity serves as a resource for electroconvulsive therapy (ECT), transcranial magnetic stimulation (TMS), and vagus nerve stimulation (VNS) as treatments for depression. It also has a link to explore an alternative therapy known as neurotherapy/neurofeedback, which is a safe (when administered by a well-trained professional), non-invasive option for a number of different developmental and psychological matters.
- Looking intently at how you are spending your time and taking preventative steps to contribute to your mental/emotional health and overall well-being is a great gift to give to yourself (and ultimately others). This activity offers a resource where you can find information on a variety of (usually research-based) preventative strategies. Moreover, if you decide that you would like to explore therapy for yourself, there are resources here to inform you as to how to find a suitable therapist and what some of your rights and responsibilities are in therapy.

Learning Lab Preparation

- Each topic will provide a question or scenario for you to consider prior to attending your Learning Lab. Be sure to carefully consider each prompt as you will be expected to contribute to the group discussion.

Final Assessments

- As mentioned, each student will be responsible for submitting a Term Paper, as well as completing a Final Exam. More information can be found by clicking on the “**Final Assessment**” tab at the top of the screen.

13.2 Evaluating Therapy

Therapy?

In a previous chapter, we looked at various ways of understanding personality. In the first part of this chapter we have been considering different therapies that grow out of these personality theories. Now it is time to ask the question, “Does it work? Is psychotherapy effective?” The answer seems to be “Yes,” but there are qualifications. First, many people who do not receive treatment get

better anyway. And second, placebo treatments also produce improvements, as do non-professional caring relationships. As David Myers says,

“All types of psychotherapy seem to offer three benefits: new hope, a fresh perspective, and an empathic, trusting, caring relationship.” (p. 592)

When you stop and think about it, isn’t this what a good friend offers? Maybe if we all experienced (and offered) this kind of friendship, therapists wouldn’t be so much in demand.

Therapy in Other Cultures

The process of psychotherapy generally assumes a cultural value of sharing your inner feelings and problems with another individual. David Ho observes that in the culture of Hong Kong, it is a sign of weakness to talk about one’s problems and to reveal much of one’s self. This cultural background influences the style of therapy and the process of psychotherapy. How would you proceed if you were a therapist?

Paul Pedersen (1985; 1987; 2000) suggests that we do not need to look at cultures outside North America to see differences in the process of psychotherapy. He suggests that different sub cultural minorities within North America approach psychotherapy with different values and different expectations. Native North American cultures, Asian immigrants, Hispanics, and Afro-Americans have different approaches to the process of psychotherapy. A therapist needs to be aware of these cultural differences to perform effectively in the therapeutic situation.

Activity: Read and Reflect

As mentioned earlier, this activity gives you an opportunity to explore the American Psychological Association (APA) website. In many ways, the APA leads the discipline and profession of psychology. It is an excellent resource for finding information on a number of areas of psychology, contemporary issues in psychology, a plethora of resources for self-help. They also have the opportunity for students to become student affiliates and enjoy member privileges that will contribute to your development as a professional. Follow the link below:

- **American Psychological Association**

Learning Lab Preparation

Prior to your Learning Lab, take some time to think about the following questions. You will be asked to share your thoughts in this week’s Learning Lab:

- *Do you think an empathic, trusting, caring friend could be as effective as a trained psychotherapist or counselor?*

13.3 Biological Treatments

Though there are a number of treatments options within the field of psychology, there are two basic treatment models:

1. The Wellness Model
2. The Medical Model.

The Wellness Model will look intently, and holistically, at a number of areas of a person's life (thoughts/emotions, relationships, work/academics, developmental stage, nutrition, activity/leisure, and sleep, to name a few) and illuminate the client's strengths and resources to help them find a way to overcome challenges and lead a more fulfilling life. Many of the psychotherapeutic approaches looked at, thus far, operate on this model.

The Medical Model, however, is based on symptom recognition, (differential) diagnosis, prognosis, and often a pharmacological support and possibly an invasive or non-invasive procedure. The topic of biological treatments is based on the medical model.

Medical Treatments

Although psychotherapy in its various forms has grown in importance over the past generation, people are still more inclined to seek the help of medical professionals over mental health professionals for their psychological concerns. One of the greatest changes in the way we have treated psychological disorders has been through the discovery and use of various drugs. In this section, we consider the various biomedical therapies that are available for psychological disorders.

Not a Panacea

All of the biological therapies produce side effects, some of them permanent. Since the brain cannot regenerate itself, psychosurgery is irreversible; ECT destroys brain cells, producing memory loss, some of which is permanent; virtually all drugs have side effects besides the dependency produced, and some of these are permanent. (For example, one class of antipsychotic drugs, the phenothiazines, can produce a permanent and irreversible muscle disorder, particularly after massive long-term use. This disorder, called tardive dyskinesia, is evidenced by involuntary movements of the face, limbs, and trunk.) Furthermore, the unknown basis of the effects of many of these techniques (e.g., ECT, and some drugs), and the exploratory nature of others (psychosurgery) should make us at least a little skeptical. (A further controversy surrounding the use of physiological therapies, particularly, ECT, concerns their forced administration to involuntary patients.)

Activity: Read and Reflect

It is important, when considering biological treatments, to receive input from more than one professional and to do adequate research on the treatment to understand the potential risks and benefits. This activity serves as a resource for electroconvulsive therapy (ECT), transcranial magnetic stimulation (TMS), and vagus nerve stimulation (VNS) as treatments for depression. It also has a link to explore an alternative therapy known as neurotherapy/neurofeedback, which is a safe (when administered by a well-trained professional), non-invasive option for a number of different developmental and psychological matters. To learn more, read below:

- **Electroconvulsive Therapy and Other Depression Treatments**
- **International Society for Neuroregulation and Research Learning Lab Preparation**

Prior to your Learning Lab, take some time to think about the following questions. You will be asked to share your thoughts in this week's Learning Lab:

- *As biological influence in psychological disorders becomes more obvious, what are the implications for psychologists and “talk therapy?”*
- *Will biological therapies eventually replace old style talk therapies?*

13.4 Preventing Problems

A Little Help When You Need It...

The textbook discusses the value of prevention on a broad level, including environmental changes. Here, we take a more personal look at how you might go about dealing with major problems or just simple blockages in your pathway to growth.

We all need help from time to time, whether we get it from family, friends, or paid professionals. Professional help can be a real boost. It might be testing to clarify career directions, sharing a relationship issue with a sympathetic listener, or in-depth study of a long-term problem. A trained helper provides an objective perspective and an empathic ear.

An Ounce of Prevention

Being aware of the possible causes of psychological problems as well as the appropriate treatments can help you avoid similar difficulties in your own life. For example you can:

- Not bury and deny strong emotions (psychodynamic view)
- Take responsibility for your feelings & promote growth (humanistic view)
- Associate positive consequences with desirable actions and negative results with undesirable ones (behavioral view)
- Avoid negative self-talk in favor of positive (cognitive view)
- Cultivate empathic, trusting, caring relationships
- Take steps to ensure a healthy body

Activity: Read and Reflect

Looking intently at how you are spending your time and taking preventative steps to contribute to your mental/emotional health and overall well-being is a great gift to give to yourself (and ultimately others). This activity offers a resource where you can find information on a variety of (usually research-based) preventative strategies. Moreover, if you decide that you would like to explore therapy for yourself, there are resources here to inform you as to how to find a suitable therapist and what some of your rights and responsibilities are in therapy.

- [Psychology Help Center](#)
- [How to Choose a Therapist](#)
- [Rights and Responsibilities in Psychotherapy](#)

Learning Lab Preparation

Prior to your Learning Lab, take some time to think about the following questions. You will be asked to share your thoughts in this week's Learning Lab:

- *What role do your religious or other beliefs play in your efforts to avoid psychological difficulties and promote growth?*
- *Do your beliefs affect your choice of the kind of help you would look for?*

Assessment

In addition to your participation in this unit's Learning Lab, you will also be responsible for completing **Quiz #3** - more information can be found by scrolling down to the bottom of the page.

Active participation in group exercises, reflection, and critical discourse is an essential component of this course. You are expected to show respect for all members of the course, both in your speech and actions. Contribute by actively observing and listening, raising thoughtful questions, examining relevant issues, building on others' ideas, analyzing and evaluating the group's thinking, synthesizing key points, and expanding the group's perspectives. Take care not to dominate a conversation, giving space for others to speak. When in small groups help maintain the focus, flow, and quality of conversations, and take the initiative to invite others (particularly those who are quiet) to speak.

Rubric for Participation in Learning Labs

Emerging (0-64%)	Developing (65-89%)	Mastering (90-100%)
Never to almost never: Demonstrates active listening (as indicated by disengaged body language and no to rare comments that build on others' remarks), Initiates any contributions in class or small groups, Makes insightful or constructive comments, Helps maintain a supportive space for others to speak.	Sometimes to fairly often: Demonstrates active listening (as indicated by somewhat to often engaged body language and comments that build on others' remarks), Initiates a contribution at least once in a class or small group discussion; Makes insightful or constructive comments, Helps maintain a supportive space for others to speak.	Very often to nearly always: Demonstrates active listening (as indicated by fully engaged body language and comments that build on others' remarks), Initiates more than one contribution in a class or small group discussion, Makes insightful or constructive comments, Creates a space for others to speak and takes initiative to include others.

Quiz #3

Your instructor will provide additional instructions. Student's will be provided with one attempt. You will be provided information about when the quiz will open so you can begin.

To begin your quiz, click on the **Quiz #3** tab at the bottom of the screen.

REMEMBER: You are also responsible for two final assessments found on the "Final Assessments" page

Checking your Learning

Before you move on to the next unit, check that you are able to:

- Define, and apply, the key terminology related to health psychology, stress and illness, and coping and well-being.
- Describe how genetic and environmental factors influence obesity, how physiological reactions that occur under stress, and how the immune system is connected to stress responses.
- Apply your knowledge of persuasion and health to examine the effectiveness of different types of cigarette warnings, and of the beneficial effects of optimism to help you reframe stressful situations as positive opportunities.
- Analyze whether media depictions of smoking affect smoking in adolescents, the claim that ulcers are caused by stress, and whether activities such as relaxation techniques, meditation, and biofeedback actually help people cope with stress and problems.
- Describe how control over the environment and positive and negative styles of coping influences well-being.

Chapter 14

Sample Unit Format

Overview

In this first unit, we begin the course by...

Topics

1. Topic
2. Topic
3. Topic
4. Topic

Learning Outcomes

When you have completed this unit, you should be able to:

- Describe...
- Contrast...
- Analyze...
- Determine...
- Create...

Activity Checklist

Here is a checklist of learning activities you will benefit from in completing this unit. You may find it useful for planning your work.

Learning Activities

- Chapter 1: sections 1.1, 1.2, 1.3 of the course text *Principles of Management*.
- Read or listen to the blog post from Bill Davis, *5 Principles of Great Management*, and reflect on the chart provided.

Assessment

- Unit 2 Team Memo

Resources

Here are the resources you will need to complete this unit.

- Bright, D. S. & Cortes, A. H. (2019). *Principles of Management*.
- Other online resources will be provided in the unit.

14.1 Topic 1 Title

[Add content]

Activity: Introductory Readings & Video

- Read ...
- Watch this short informative video that helps you understand the competitive environment by using the case of Amazon books Vs. Independent bookstores.

Watch: *The Competitive Environment Explained*

Questions to Consider

After watching the above video, consider the following questions:

- ...

- ...

Note: *Learning activities in this course are ungraded, unless specified. They are designed to help you succeed in your assessments in this course, so you are strongly encouraged to complete them.*

14.2 Topic 2 Title

[add content]

14.3 Topic 3 Title

[add content]

Unit 1 Summary

[add content]

Assessment

Assessment 1 Title

- Do a thing
 - Do another thing
- Assessment 2 Title
- Do a thing
 - Do another thing

Note: *This is an example of a note pertaining to an assessment*

Checking your Learning

Now that you have completed the learning activities and assignments for this unit, check the unit learning outcomes below to see if you are able to do the following:

- Describe...
- Contrast...
- Analyze...
- Determine...
- Create...

Feel free to review topics more in depth or continue on to the next unit.

Sample courses:

- LDRS 375
- LDRS 440

Course Credits

Course Contributors

Curriculum Developer

Course Instructors

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14.3.1 Course Development Team

Course Writer: Instructional Designer: Production Team: Department Chair:
Dean:

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1Y1

References

The following are key references used in this course. *Check with your course syllabus for required readings.*