

**Year 11**

**PSYCHOLOGY ATAR**

**Semester One Exam**

**2019**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Teacher: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***TIME ALLOWED FOR THIS PAPER***

Reading time before commencing work: Ten minutes

Working time for the paper: Three Hours

***MATERIALS REQUIRED/RECOMMENDED FOR THIS PAPER***

**To be provided by the supervisor:**

* This Question/Answer Booklet

**To be provided by the candidate:**

* Standard items: Pens, pencils, eraser or correction fluid, ruler, highlighter, ruler.
* Special items: Non-programmable calculators approved for use in the WACE examination.

***IMPORTANT NOTE TO CANDIDATES***

No other items may be taken into the examination room. It is **your** responsibility to ensure that you do not have any unauthorised notes or other items of a non-personal nature in the examination room. If you have any unauthorised material with you, hand it to the supervisor **before** reading any further.

***Structure of this paper***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Section | Number of questions available | Number of questions to be attempted | Suggested working time  (minutes) | Marks available | Percentage of examination |
| Section One:  Research Methods | 3 | 3 | 30 minutes | 31 | 20 |
| Section Two:  Short Answer | 6 | 6 | 90 minutes | 83 | 55 |
| Section Three:  Extended Answer | 2 | 2 | 60 minutes | 52 | 25 |
|  |  |  |  | Total | 100 |

**Instructions to candidates**

1. The rules for the conduct of Western Australian external examinations are detailed in the *Year 11 Information Handbook 2019.* Sitting this examination implies that you agree to abide by these rules.

2. Write your answers in this Question/Answer Booklet.

3. You must be careful to confine your responses to the specific questions asked and to follow any instructions that are specific to a particular question.

4. Spare pages are included at the end of this booklet. They can be used for planning your responses and/or as additional space if required to continue an answer.

* Planning: If you use the spare pages for planning, indicate this clearly at the top of the page.
* Continuing an answer: If you need to use the space to continue an answer, indicate in the original answer space where the answer is continued, i.e. give the page number. Fill in the number of the question that you are continuing to answer at the top of the page.

**Section One: Research Methods 20% (31 Marks)**

This section has **three** questions. Answer **ALL** questions. Write your answers in the spaces provided.

Supplementary pages for planning/continuing your answers to questions are provided at the end of this Question/Answer booklet. If you use these pages to continue an answer, indicate at the original answer where the answer is continued, i.e. give the page number.

Suggested working time: 30 minutes.

**Question 1 (14 marks)**

Researchers examined the relationship between depressive symptoms and the amount of aerobic exercise completed by male inmates in jail. Using a non-experimental research method, the number of hours of aerobic exercise completed by twelve inmates in one week was recorded and the inmates also completed the Beck Depression Inventory to measure their depressive symptoms. The Beck Depression Inventory contains 21 questions and a final score between 0-13 suggests minimal depression while a score between 29-63 suggests severe depression. The results are shown in the table below.

**Hours of aerobic exercise versus Beck Depression Inventory score**

|  |  |
| --- | --- |
| Hours of aerobic exercise | Beck Depression Inventory score |
| 1 | 51 |
| 3 | 34 |
| 3 | 20 |
| 4 | 17 |
| 6 | 12 |
| 7 | 9 |
| 10 | 5 |
| 11 | 6 |
| 11 | 5 |
| 13 | 4 |
| 15 | 2 |
| 16 | 2 |

a) Calculate the mean hours of aerobic exercise. (1 mark)

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b) Calculate the median Beck Depression Inventory score. (1 mark)

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c) Outline **one** disadvantage of using the mean as a measure of central tendency. (1 mark)

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d) Graph the results from the research above into the grid below. (5 marks)

A spare grid is provided at the end of this Question/Answer booklet.

If you need to use it, cross out this attempt.



e) State the name given to variables in this type of non-experimental research. (1 mark)

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f) State the direction of relationship between the variables in the graph. (1 mark)

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g) ‘An increase in aerobic exercise causes a decrease in depressive symptoms’. State whether this

conclusion is correct and justify your answer. (2 marks)

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h) The Beck Depression Inventory involves a survey, in the form of a self-rating scale, that

participants complete individually. Outline **one** benefit of using a survey in research and **one**

limitation. (2 marks)

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**Question 2 (10 marks)**

A university student wanted to look at the effect cerebrum size in humans has on intelligence and adaptability. Fourty participants had a CT scan performed to measure the size of their cerebrum and took part in an IQ test and survey to measure their intelligence and their ability to adapt to new situations.

a) Write a suitable operationalised hypothesis for the research. (3 marks)

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b) State whether the research was experimental or non-experimental and include **one** reason for

your response. (2 marks)

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c) Describe how the university student could check to see if the survey was a reliable measure

of adaptability. (2 marks)

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d) Results from the research gave a p value of 0.03. Explain what this finding means. (3 marks)

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**Question 3 (7 marks)**

a) Explain the importance of having a ‘control group’ when conducting experimental research. (2 marks)

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b) Outline **two** differences between a bar graph and a histogram. (2 marks)

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c) List **three** pieces of information that should be included during debriefing. (3 marks)

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**END OF SECTION ONE**

**Section Two: Short Answer 55% (83 Marks)**

This section has **six** questions. Answer **ALL** questions. Write your answers in the spaces provided.

Supplementary pages for planning/continuing your answers to questions are provided at the end of this Question/Answer booklet. If you use these pages to continue an answer, indicate at the original answer where the answer is continued, i.e. give the page number.

Suggested working time: 90 minutes.

**Question 4 (15 marks)**

a) State the name given to the outer layer of the cerebral hemispheres of the brain. (1 mark)  
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b) i. Identify which of the three major parts of the brain is involved in functions such as breathing,

digestion and heartbeat. (1 mark)

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ii. Identify which of the three major parts of the brain receives messages from all the senses,

except smell. (1 mark)

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c) Describe the main function of the corpus callosum. (1 mark)

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d) Louise spots a painting by Monet in an art gallery and writes down the title of the painting in her

notebook. As she sits and views the painting, she begins to daydream and imagines what it

would be like to be a famous artist.

i. Identify the hemisphere of the brain dominant in the control of voluntary right hand movement. (1 mark)

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ii. Identify the hemisphere of the brain dominant in the control of art awareness. (1 mark)

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iii. Identify the hemisphere of the brain dominant in the control of imaginative thought. (1 mark)

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e) A patient suffers from a condition in which they are unaware that the left half of their body exists.

Identify the lobe and hemisphere that has been affected.

i. Lobe: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (1 mark)

ii. Hemisphere: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (1 mark)

f) The frontal lobe is responsible for the control of higher order functions. List **two** examples of what

would be considered higher order functions. (2 marks)

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g) Identify **two** personality characteristics that Phineas Gage had before his accident and identify

**two** contrasting personality characteristics he gained after the accident.

i. Before (2 marks)

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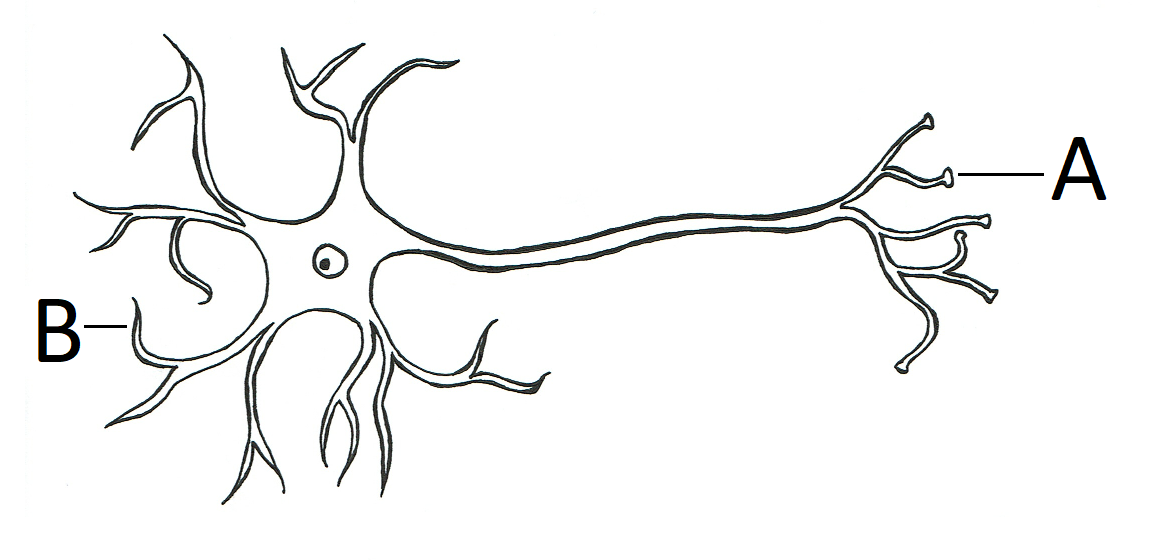
ii. After (2 marks)

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**Question 5 (11 marks)**

a) i. On the diagram below, draw an arrow clearly showing the direction of electrical messages

 that pass through the neuron. (1 mark)

ii. Name the structure of the neuron labelled A. (1 mark)

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iii. Outline the function of the structure labelled A. (1 mark)

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iv. Name the structure of the neuron labelled B. (1 mark)

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v. Name the structure of the neuron that speeds up the transmission of electrical messages. (1 mark)

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b) Name **one** scanning technique that only gives information regarding brain structure. (1 mark)

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c) Suggest **one** scanning technique that best shows brain changes in real time. (1 mark)

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d) If a patient has a metallic implant in their body, there are two brain scanning techniques they are

advised not to undertake. Identify these **two** techniques. (2 marks)

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e) Outline what the terms ‘amplitude’ and ‘frequency’ refer to when analysing brainwaves produced

by an electroencephalograph (EEG). (2 marks)

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**Question 6 (9 marks)**

a) Explain why recreational drugs have the ability to affect psychological experiences by altering

behaviour, cognition, sensory perception and mood. (2 marks)

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b) Identify the name of the class of recreational drug below its matching description and name **one**

specific drug in each class.

i. Arouses body functions and excites the central nervous system. (2 marks)

Class of drug: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

One specific drug: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

ii. Slows down body functions and calms the activity of the central nervous system. (2 marks)

Class of drug: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

One specific drug: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

c) List **two** psychological effects that alcohol can have on the body. (2 marks)

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d) Describe **one** way in which exercise can affect emotion. (1 mark)

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**Question 7 (16 marks)**

a) Complete the table below by identifying a stimulus that activates the corresponding sense.

(4 marks)

|  |  |
| --- | --- |
| Sense | Type of stimulus |
| Hearing |  |
| Touch |  |
| Smell |  |
| Taste |  |

b) Although sensation and perception are closely related processes, only one is affected by a

person’s past experiences. Identify whether sensation or perception is affected by the past

experiences of an individual. (1 mark)

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c) Below are the stages of visual sensation and perception. Next to each stage, record the number

(1 to 5) that represents the correct order. (5 marks)

Information is interpreted. \_\_\_\_\_

Light waves are converted into electrochemical energy. \_\_\_\_\_

Light enters the eye and is detected by photoreceptors in the retina. \_\_\_\_\_

Information is organised. \_\_\_\_\_

Electrochemical energy moves to the occipital lobe via the optic nerve. \_\_\_\_\_

d) Outline **two** differences between the processes of sensation and perception. (2 marks)

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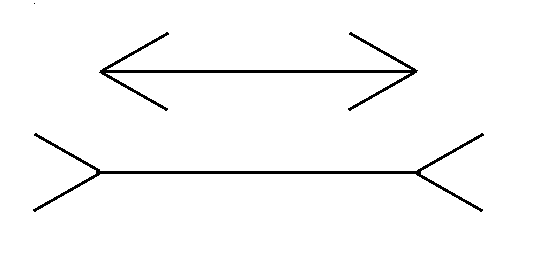
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e) Researchers in the 1960’s showed the Müller-Lyer illusion (shown below) to Western participants

(such as those in the UK and United States) who grew up in buildings with walls and, who were

‘tricked’ by the illusion. When non-Western participants who had not grown up in the same

built environment were shown the illusion, they were not ‘tricked’ by it.



i. Describe the Müller-Lyer illusion. (3 marks)

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ii. Identify the concept that influenced perception in the above research. (1 mark)

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**Question 8 (18 marks)**

a) There are two main categories of consciousness. Name these **two** categories. (2 marks)

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b) An electrocardiograph (ECG) and electroencephalograph (EEG) are both methods used to

measure different states of consciousness.

i. Identify what an ECG detects. (1 mark)

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ii. Identify what an EEG detects. (1 mark)

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c) Atayah is a first aid volunteer at a music festival and must treat a young man who is behaving in

an aggressive manner, has a high breathing rate and heart rate and is having difficulty in

focusing on telling Atayah his name when asked. Identify **two** physiological characteristics of the

young man that indicates he is experiencing an altered state of consciousness. (2 marks)

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d) Ellen is a university student taking part in research on consciousness. Once in a meditative state,

a research assistant measures her galvanic skin response (GSR).

i. Describe what GSR detects. (1 mark)

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ii. Identify whether Ellen would have a high or a low GSR. (1 mark)

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iii. Outline **one** limitation of using GSR as a measure of consciousness. (1 mark)

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e) Liam and Chris were sitting in the crowd at a basketball game. Chris started talking to Liam and

Liam deemphasised the auditory stimuli from the cheering people seated around them and

concentrated his attention on what Chris was telling him.

i. State the type of attention Liam used when he tried to listen to Chris talking to him. (1 mark)

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ii. Identify the level/amount of conscious awareness Liam had when trying to listen to Chris. (1 mark)

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iii. Identify the amount of mental effort Liam required when trying to listen to Chris. (1 mark)

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f) Explain why most people are able to speak to someone on the phone while simultaneously

dusting the house or tidying up but are unable to do so while reading a novel or completing

mathematical equations. (2 marks)

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g) Ahmad received a watch for Christmas and wore it every day for a year, not even taking it off to

shower or sleep. The following Christmas, the closure clasp broke and he had to send it away to

be fixed. Three weeks later it was returned to him and he put it back on again. Referring directly

to Ahmad and his watch, explain the processes of habituation and dishabituation. (4 marks)

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**Question 9 (14 marks)**

a) At times there is some sort of motivation behind an individual helping another person. Provide

**one** form of motivation that is anti-social behaviour and **one** that is pro-social behaviour.

i. Anti-social behaviour: (1 mark)

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ii. Pro-social behaviour: (1 mark)

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b) Define the term ‘altruism’. (1 mark)

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c) In relation to the value to society and benefit to self, contrast between pro-social and anti-social

behaviour by completing the table below. (4 marks)

|  |  |  |
| --- | --- | --- |
|  | Pro-social behaviour | Anti-social behaviour |
| Value to society |  |  |
| Expectation of benefit to self |  |  |

d) Name the theorist who proposed a model that describes how group dynamics change during

adolescence and identify the type of research conducted in this study. (2 marks)

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e) Juk and her family moved to another suburb due to Juk’s mother finding a new job. Her form

teacher realised that both Juk and another Year 11 student, Olivia, had chosen to audition for

acting roles in the drama production and both had a keen interest in the arts. The form teacher

asked Olivia to show Juk around the school and the two girls soon became good friends.

i. Identify the determinant of liking Juk used to make friends with Olivia. (1 mark)

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ii. Name the other **two** determinants of liking, and for each, describe an example to show

how it could be utilised by Juk and Olivia to strengthen their friendship. (4 marks)

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**END OF SECTION TWO**

**Section Three: Extended Answer 25% (52 Marks)**

Section Three consists of **two** questions. You must answer **BOTH** questions.

Supplementary pages for planning/continuing your answers are provided at the end of this Question/Answer booklet. If you use these pages to continue an answer, indicate at the original answer where the answer is continued, i.e. give the page number.

Suggested working time: 60 minutes.

Write your answer to Question 10 on pages 21-26. When you have answered this question, turn to page 28 for Question 11 and write your answer on pages 29-34.

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**Question 10 (27 marks)**

Administration at Coates Secondary College wanted to design a program to support Year 11 students preparing for exams. Having each Year 11 student complete an emotional intelligence test and an intelligence test, the administration believed they could use the results from these tests to customise a study plan for each individual student and improve mental health by helping students manage their emotions effectively. Explain how this program can be useful to the students.

In your response you should include:

 a definition of emotional intelligence, an overview of emotional intelligence theory and how sitting

an emotional intelligence test could benefit students in their studies.

 a description of the Stanford-Binet intelligence scale and how sitting this test could benefit

students in their studies.

 a description of Wechsler’s intelligence scale and how sitting this test could benefit students in

their studies.

 definitions of ‘mental age’ and ‘chronological age’ as used by psychologists when testing

intelligence.

Support your answer with empirical evidence.

Question number: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**Question 11 (25 marks)**

In the middle of the year, a new student, Casey, joins Miss Cooper’s Year 8 Science class. Casey has a hearing impairment (specifically, sensorineural hearing loss) and having concerns of coping at a new school, Miss Cooper spends two weeks teaching the class about hearing impairments, methods of overcoming the impact of hearing impairments and techniques the students could use in the classroom to help all the students effectively communicate with each other.

What would Miss Cooper tell her class?

In your response you should:

* explain the difference between sensorineural/ conductive hearing loss.
* describe **four** effects of hearing impairment on later development in children.
* describe **two** methods of overcoming the impact of hearing impairments in children.
* describe **two** ways Miss Cooper and the students could use touch to bond with Casey.
* Discuss the theory of physical distance and identify the distance zone utilised between Casey and her peers, and between Miss Cooper and her students.

Support your answer with empirical evidence.

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Extra space pages

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Extra space pages

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Extra space pages

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**Reference List**

WATP acknowledges the permission of the School Curriculum and Assessment Authority in providing instructions to students.