

Table of Contents

AP Biology Structure

Unit 1: Chemistry of Life	2
1.1 Structure of Water	3
1.2 Elements of Life	4
1.3 Macromolecules	5
1.4 Carbohydrates	6
1.5 Lipids	7
1.6 Nucleic Acids	8
1.7 Proteins	9
Unit 2: Cell Structure and Function	10
2.1 Cell Structure	11
2.2 Cell Size	12
2.3 Plasma Membrane	13
2.4 Permeability	14
2.5 Membrane Transport	15
2.6 Facilitated Diffusion	16
2.7 Tonicity	17
2.8 Transport Mechanisms	18
2.9 Compartmentalization	19
2.10 Origins of Compartmentalization	20
Unit 3: Cellular Energetics	21
3.1 Enzymes	22
3.2 Enzyme Environments	23
3.3 Cellular Energy	24
3.4 Photosynthesis	25
3.5 Cellular Respiration	26
Unit 4: Cell Communication and Cell Cycle	27
4.1 Cell Communication	28
4.2 Signal Transduction Intro	29
4.3 Signal Transduction Pathways	30
4.4 Feedback	31
4.5 Cell Cycle	32
4.6 Cell Differentiation	33
Unit 5: Heredity	34
5.1 Meiosis	35
5.2 Meiosis and Diversity	36
5.3 Mendelian Genetics	37
5.4 Non-Mendelian Genetics	38
5.5 Environmental Phenotypes	39

Table of Contents

Unit 6: Gene Expression and Regulation	40
6.1 DNA and RNA Structure	41
6.2 DNA Replication	42
6.3 Transcription	43
6.4 Translation	44
6.5 Regulation of Expression	45
6.6 Expression and Specialization	46
6.7 Mutations	47
6.8 Biotechnology	48
Unit 7: Natural Selection	49
7.1 Intro to Natural Selection	50
7.2 Natural Selection	51
7.3 Artificial Selection	52
7.4 Population Genetics	53
7.5 Hardy-Weinberg Equilibrium	54
7.6 Evidence of Evolution	55
7.7 Common Ancestry	56
7.8 Continuing Evolution	57
7.9 Phylogeny	58
7.10 Speciation	59
7.11 Variations in Populations	60
7.12 Origins of Life	61
Unit 8: Ecology	62
8.1 Responses to Environment	63
8.2 Energy Flow	64
8.3 Population Ecology	65
8.4 Density Effects	66
8.5 Community Ecology	67
8.6 Biodiversity	68
8.7 Disruptions in Ecosystems	69

Unit 1 Preview

Topics in this Unit

- 1.1 Structure of Water
- 1.2 Elements of Life
- 1.3 Macromolecules
- 1.4 Carbohydrates
- 1.5 Lipids
- 1.6 Nucleic Acids
- 1.7 Proteins

1.1 Structure of Water

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1.2 Elements of Life

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1.3 Macromolecules

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1.4 Carbohydrates

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1.5 Lipids

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1.6 Nucleic Acids

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1.7 Proteins

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Unit 2 Preview

Topics in this Unit

- 2.1 Cell Structure
- 2.2 Cell Size
- 2.3 Plasma Membrane
- 2.4 Permeability
- 2.5 Membrane Transport
- 2.6 Facilitated Diffusion
- 2.7 Tonicity
- 2.8 Transport Mechanisms
- 2.9 Compartmentalization
- 2.10 Origins

2.1 Cell Structure

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2.2 Cell Size

Main Notes

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2.3 Plasma Membrane

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2.4 Permeability

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2.5 Membrane Transport

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2.6 Facilitated Diffusion

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2.7 Tonicity

Main Notes

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2.8 Transport Mechanisms

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2.9 Compartmentalization

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2.10 Origins

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Unit 3 Preview

Topics in this Unit

- 3.1 Enzymes
- 3.2 Enzyme Environments
- 3.3 Cellular Energy
- 3.4 Photosynthesis
- 3.5 Cellular Respiration

3.1 Enzymes

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3.2 Enzyme Environments

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3.3 Cellular Energy

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3.4 Photosynthesis

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3.5 Cellular Respiration

Main Notes

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Unit 4 Preview

Topics in this Unit

- 4.1 Cell Communication
- 4.2 Signal Transduction Intro
- 4.3 Signal Transduction Pathways
- 4.4 Feedback
- 4.5 Cell Cycle
- 4.6 Cell Differentiation

4.1 Cell Communication

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4.2 Signal Transduction Intro

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4.3 Signal Transduction Pathways

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4.4 Feedback

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4.5 Cell Cycle

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4.6 Cell Differentiation

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Unit 5 Preview

Topics in this Unit

- 5.1 Meiosis
- 5.2 Meiosis and Diversity
- 5.3 Mendelian Genetics
- 5.4 Non-Mendelian Genetics
- 5.5 Environmental Phenotypes

5.1 Meiosis

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5.2 Meiosis and Diversity

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5.3 Mendelian Genetics

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5.4 Non-Mendelian Genetics

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5.5 Environmental Phenotypes

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Unit 6 Preview

Topics in this Unit

- **6.1** DNA and RNA Structure
- **6.2** DNA Replication
- **6.3** Transcription
- **6.4** Translation
- **6.5** Regulation of Expression
- **6.6** Expression and Specialization
- **6.7** Mutations
- **6.8** Biotechnology

6.1 DNA and RNA Structure

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6.2 DNA Replication

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6.3 Transcription

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6.4 Translation

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6.5 Regulation of Expression

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6.6 Expression and Specialization

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6.7 Mutations

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6.8 Biotechnology

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Unit 7 Preview

Topics in this Unit

- 7.1 Intro to Natural Selection
- 7.2 Natural Selection
- 7.3 Artificial Selection
- 7.4 Population Genetics
- 7.5 Hardy-Weinberg
- 7.6 Evidence of Evolution
- 7.7 Common Ancestry
- 7.8 Continuing Evolution
- 7.9 Phylogeny
- 7.10 Speciation
- 7.11 Variations
- 7.12 Origins of Life

7.1 Intro to Natural Selection

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7.2 Natural Selection

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7.3 Artificial Selection

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7.4 Population Genetics

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7.5 Hardy-Weinberg

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7.6 Evidence of Evolution

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7.7 Common Ancestry

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7.8 Continuing Evolution

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7.11 Variations

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7.12 Origins of Life

Main Notes

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Unit 8 Preview

Topics in this Unit

- 8.1 Responses to Environment
- 8.2 Energy Flow
- 8.3 Population Ecology
- 8.4 Density Effects
- 8.5 Community Ecology
- 8.6 Biodiversity
- 8.7 Disruptions

8.1 Responses to Environment

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8.2 Energy Flow

Main Notes

Definition

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8.3 Population Ecology

Main Notes

Definition

Concept

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8.4 Density Effects

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8.5 Community Ecology

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8.6 Biodiversity

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8.7 Disruptions

Main Notes

Definition

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