

Unit Topic: Cells

Essential Question: How do the components within a cell work together to maintain homeostasis from an organismal level all the way down to a cellular level?

Concept 1 Cell Theory

1. List the 3 principles of cell theory.
2. Describe the structures that distinguish prokaryotic cells from animal cells.
3. Describe the structures that distinguish plant cells from animal cells.
4. Describe the function of the following organelles: nucleus, plasma membrane, rough and smooth ER, Golgi apparatus, vacuole, centrioles, cilia, flagella, mitochondrion, chloroplast, and cell wall.
5. Describe the role of proteins and carbohydrates in the structure and function of the phospholipid bilayer.
6. Defend the claim that ribosomes are the most essential organelle in the cell. In your reasoning, include evidence of at least 3 organelles that support the ribosome in accomplishing its function for the cell.
7. Predict the consequences of the failure or absence of an organelle inside a eukaryotic cell.

Vocabulary:
Prokaryotic
Eukaryotic
Organelle

Concept 2 Homeostasis

1. Differentiate between dynamic and static equilibrium.
2. Describe the structures and functions of the cell membrane and the nucleus.
3. Differentiate between passive and active transport.
4. Describe the role of the cell membrane in homeostasis.
5. Differentiate between active and passive transport.
6. Describe the role of the cell membrane in homeostasis.
7. Describe the role of the cell membrane in homeostasis.
8. Classify solutions as hypotonic, isotonic, and hypertonic solutions. You may use a picture to help you describe.
9. Classify a cell as hypertonic or hypotonic based on a diagram or description.
10. Classify solutions as hypertonic, hypotonic, or isotonic based on a diagram or description.

Vocabulary:
Homeostasis
Solute
Solvent
Concentration

Concept 3 Cell Cycle and Cancer

1. Summarize the order of events from egg to embryo.
2. Explain the difference between specialized cells and stem cells.
3. List the levels of organization from cell to organism that result from differentiation.
4. List the two main purposes for cell division.
5. Summarize the order of events from egg to embryo.
6. Explain the difference between specialized cells and stem cells.
7. List the levels of organization from cell to organism that result from differentiation.
8. Summarize how cells know when they need to divide. Include examples of the difference between internal and external regulation.
9. Explain the key roles of checkpoints and apoptosis in the regulation of the cell cycle.
10. Define tumor and differentiate between the two types.
11. List several potential causes of cancer.

Vocabulary:
Cell cycle
Chromosome

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Table of Contents High School Science Uil Study Guide

1. Understanding the eBook High School Science Uil Study Guide
 - The Rise of Digital Reading High School Science Uil Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying High School Science Uil Study Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an High School Science Uil Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from High School Science Uil Study Guide
 - Personalized Recommendations
 - High School Science Uil Study Guide User Reviews and Ratings
 - High School Science Uil Study Guide and Bestseller Lists
5. Accessing High School Science Uil Study Guide Free and Paid eBooks
 - High School Science Uil Study Guide Public Domain eBooks
 - High School Science Uil Study Guide eBook Subscription Services
 - High School Science Uil Study Guide Budget-Friendly Options

6. Navigating High School Science Uil Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - High School Science Uil Study Guide Compatibility with Devices
 - High School Science Uil Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of High School Science Uil Study Guide
 - Highlighting and Note-Taking High School Science Uil Study Guide
 - Interactive Elements High School Science Uil Study Guide
8. Staying Engaged with High School Science Uil Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers High School Science Uil Study Guide
9. Balancing eBooks and Physical Books High School Science Uil Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection High School Science Uil Study Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine High School Science Uil Study Guide
 - Setting Reading Goals High School Science Uil Study Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of High School Science Uil Study Guide
 - Fact-Checking eBook Content of High School Science Uil Study Guide
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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