

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 functions of the following organelles: plasma membrane, nucleus, rough and smooth ER, Golgi apparatus, vacuole, centrioles, cilia, flagella, mitochondria, chloroplast, and cell wall.
5. Describe the roles 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 regarding homeostasis.
2. Describe the structures and functions of the following organelles: nucleus, rough and smooth ER, Golgi apparatus, vacuole, centrioles, cilia, flagella, mitochondria, chloroplast, and cell wall.
3. Describe the roles of proteins and carbohydrates in the structure and function of the phospholipid bilayer.
4. Describe the functions of the following organelles: plasma membrane, nucleus, rough and smooth ER, Golgi apparatus, vacuole, centrioles, cilia, flagella, mitochondria, chloroplast, and cell wall.
5. Describe the roles 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:
Homeostasis
Solute
Solvent
Concentration

Concept 3 Cell Cycle and Cancer

1. Summarize the order of events from egg formation 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 formation 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. List the two main purposes for cell division.
9. Summarize how cells know when they need to divide. Include examples of the difference between internal and external regulation.
10. Explain the key roles of checkpoints and apoptosis in the regulation of the cell cycle.
11. Define tumor and differentiate between the two types.
12. List several potential causes of cancer.

Vocabulary:
Cell cycle
Chromosome

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Table of Contents Middle School Science Study Guides

1. Understanding the eBook Middle School Science Study Guides
 - The Rise of Digital Reading Middle School Science Study Guides
 - Advantages of eBooks Over Traditional Books
2. Identifying Middle School Science Study Guides
 - 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 Middle School Science Study Guides
 - User-Friendly Interface
4. Exploring eBook Recommendations from Middle School Science Study Guides
 - Personalized Recommendations
 - Middle School Science Study Guides User Reviews and Ratings
 - Middle School Science Study Guides and Bestseller Lists
5. Accessing Middle School Science Study Guides Free and Paid eBooks

- Middle School Science Study Guides Public Domain eBooks
 - Middle School Science Study Guides eBook Subscription Services
 - Middle School Science Study Guides Budget-Friendly Options
6. Navigating Middle School Science Study Guides eBook Formats
 - ePub, PDF, MOBI, and More
 - Middle School Science Study Guides Compatibility with Devices
 - Middle School Science Study Guides Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Middle School Science Study Guides
 - Highlighting and Note-Taking Middle School Science Study Guides
 - Interactive Elements Middle School Science Study Guides
 8. Staying Engaged with Middle School Science Study Guides
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Middle School Science Study Guides
 9. Balancing eBooks and Physical Books Middle School Science Study Guides
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Middle School Science Study Guides
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Middle School Science Study Guides
 - Setting Reading Goals Middle School Science Study Guides
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Middle School Science Study Guides
 - Fact-Checking eBook Content of Middle School Science Study Guides
 - 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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