

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?

Objectives

1. List the 3 principles of cell theory.
2. Describe the structures that distinguish animal cells from plant cells.
3. Describe the structures that distinguish prokaryotic cells from animal cells.
4. Describe the functions of the following organelles: plasma membrane, nucleus, nucleolus, rough and smooth ER, Golgi apparatus, vacuole, centrioles, cilia, flagella, mitochondrion, chloroplast, and cell wall.
5. Describe the roles of proteins and carbohydrates in the structure and function of the phospholipid bilayer and how its structure affects function.
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 effects of osmosis on a plant or animal cell based on a diagram or description.
8. Predict the consequences of the failure or absence of an organelle inside a eukaryotic cell.

Vocabulary:

Cell theory
Prokaryotic cell
Organelle

Objectives

1. Differentiate between dynamic and static equilibrium regions.
2. Describe the functions of the following organelles: nucleus, nucleolus, rough and smooth ER, Golgi apparatus, vacuole, centrioles, cilia, flagella, mitochondrion, chloroplast, and cell wall.
3. Describe the roles of proteins and carbohydrates in the structure and function of the phospholipid bilayer and how its structure affects function.
4. 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.
5. Predict the effects of osmosis on a plant or animal cell based on a diagram or description.
6. Predict the consequences of the failure or absence of an organelle inside a eukaryotic cell.

Vocabulary:

Homeostasis
Solvent
Solute
Concentration

Concept 3

Cell Cycle and Cancer

Objectives

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. 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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High School Study Guide

**United States. Department of Health,
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 - Chapter 1: Introduction to High School Study Guide
 - Chapter 2: Essential Elements of High School Study Guide
 - Chapter 3: High School Study Guide in Everyday Life
 - Chapter 4: High School Study Guide in Specific Contexts
 - Chapter 5: Conclusion
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