

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, mitochondrion, 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, mitochondrion, 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, mitochondrion, 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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High School Science Uil Study Guide

Tobias Bleicker



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