

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. Compare and contrast the structure and function of a prokaryotic cell, a plant cell, and an animal cell.
8. Predict the consequences of the failure or absence of an organelle inside a eukaryotic cell.

Vocabulary:
Cell theory
Prokaryotic cell
Organelle

Concept 2 Homeostasis

1. Differentiate between dynamic and static equilibrium.
2. Describe the structures and functions of the cell membrane.
3. Differentiate between passive and active transport.
4. Describe the roles of the cell membrane in homeostasis.
5. Differentiate between active and passive transport.
6. Describe the roles of the cell membrane in homeostasis.
7. Explain the roles 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 hypotonic, isotonic, and hypertonic 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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High School Science Uil Study Guide

Michael Rajnik



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