

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?

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Concept 3
Cell Cycle and Cancer

Objectives

1. List the 3 principles of cell theory.
2. Describe the structures that distinguish animal cells from those of plants.
3. Describe the structures that distinguish prokaryotic cells from those of eukaryotic cells.
4. Describe the functions of the following organelles: nucleus, mitochondrion, Golgi apparatus, lysosome, vacuole, centrioles, cilia, flagella, microtubules, chloroplast, and cytoskeleton.
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:
Cell
Organelle

Objectives

1. Differentiate between dynamic and static equilibrium systems.
2. Describe the differences between active and passive transport.
3. Differentiate between potential and kinetic energy.
4. Describe the differences between homeostatic and non-homeostatic systems.
5. Differentiate between active and passive transport.
6. Describe the differences between hypotonic, isotonic, and hypertonic solutions. You may use a picture to help you describe.
7. Classify a cell as hypertonic or hypotonic or isotonic based on a diagram or observation.
8. Classify a cell as hypertonic or hypotonic or isotonic based on a diagram or observation.
9. Classify a cell as hypertonic or hypotonic or isotonic based on a diagram or observation.
10. Classify solutions as hypertonic, hypotonic, or isotonic based on a diagram or observation.

Vocabulary:
Homeostasis
Solute
Solvent
Osmosis
Concentration

Objectives

1. Summarize the order of events from egg to zygote 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 differences between mitosis and meiosis.
6. List the PHASES of mitosis in order.
7. List the PHASES of meiosis in order.
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
Chromosomes

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S. K. Patel



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