

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 animal cells from plant cells.
3. Describe the structures that distinguish prokaryotic cells from eukaryotic 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.
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 plant cell, an animal cell, and a prokaryotic cell.
8. Predict the consequences of the failure or absence of an organelle inside a eukaryotic cell.

Vocabulary:
Cell theory
Prokaryotic cell
Eukaryotic cell
Organelle

Concept 2 Homeostasis

1. Differentiate between dynamic and static equilibrium.
2. Describe the processes of osmosis, diffusion, and active transport.
3. Differentiate between potential and kinetic energy.
4. Describe the structure and function of the cell membrane.
5. Describe the structure and function of the cell wall.
6. Describe the structure and function of the cell membrane.
7. Describe the structure and function of the cell membrane.
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 hypertonic, hypotonic, or isotonic 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 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 order of events from egg to zygote 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

M Carnoy



High School Study Guide:

High School Study Guide Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**High School Study Guide**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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