

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 function of the following organelles: nucleus, plasma membrane, rough and smooth ER, Golgi apparatus, vacuole, centrioles, cilia, flagella, mitochondrion, chloroplast, and cell wall.
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:
Prokaryotic
Eukaryotic
Organelle

Concept 2 Homeostasis

1. Differentiate between dynamic and static equilibrium.
2. Describe the structures and functions of the cell membrane and the nucleus.
3. Differentiate between passive and active transport.
4. Describe the role of the cell membrane in homeostasis.
5. Differentiate between active and passive transport.
6. Describe the role of the cell membrane in homeostasis.
7. Describe the role 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 isotonic, hypotonic, or hypertonic based on a diagram or description.
10. Classify solutions as isotonic, hypotonic, or 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 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 Science Uil Study Guide

IM Harris



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Section 11-3: Exploring Mendelian Genetics Flashcards All genes show simple patterns of dominant and recessive alleles. Description: One allele is not completely dominant over another. The heterozygous phenotype ...

11-4 Meiosis (Answers to Exploring Mendelian Genetics ... Genes for different traits can segregate independently during the formation of gametes. dominant recessive false. 10. codominance multiple ...

11-3 Exploring Mendelian Genetics Flashcards the inheritance of biological characteristics is determined by genes that are passed from parents to their offspring in organisms that reproduce sexually Exploring Mendelian Genetics Exploring Mendelian Genetics. Section 11-3. Independent Assortment. In a two-factor cross, Mendel followed _____ different genes as they passed from one ...

11-3 Exploring Mendelian Genetics Mendel crossed the heterozygous F1 plants ($RrYy$) with each other to determine if the alleles would segregate from each other in the F2 generation. $RrYy \times RrYy$. 11-3 Exploring Mendelian Genetics What is the difference between incomplete dominance and codominance? • Incomplete dominance = heterozygous phenotype is somewhere in between the 2. Section 11-3 Exploring Mendelian Genetics Section 11-3 Exploring Mendelian Genetics. (pages 270-274). Key Concepts. • What is the principle of independent assortment? • What inheritance patterns exist ...

Answers For CH 11, 13, 14 Reading Handout Section 11—3 Exploring Mendelian Genetics 9. What was the ratio of Mendel's F2 generation for the two-factor cross? (pages 270-274) 10. Complete the Punnett ...

11-3 Exploring Mendelian Genetics Aug 14, 2014 — 11-3 Exploring Mendelian Genetics. Key Concepts: What is the principle of independent assortment? What inheritance patterns exist aside from ...

Answers to All Questions and Problems Aug 14, 2015 — CHAPTER 1. 1.1 In a few sentences, what were Mendel's key ideas about inheritance? ANS: Mendel postulated transmissible factors—genes—to.