

## 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, 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

**Lynda Crowell**



## High School Science Uil Study Guide:

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she walked through life like a spectre present in body only As she descended so did her health Fortunately Abby was not alone She had loving parents supportive friends and a faith that continued to sustain her Little by little she found the courage to return to life Joining The Biggest Loser proved a catalyst for the physical and emotional changes she needed to make In fact against all odds Abby gained strength courage wisdom and continued her steadfast relationship with God Instead of anger she found herself slowly but steadily healing She lost a hundred pounds but gained hope In this riveting book Abby tells her story from her joyous life before the accident to the unbearable pain that followed it and her eventual emergence as a woman reinvigorated by her faith in God Today Abby s resilience and positivity are a testament to the power and importance of faith in the darkest hours **Chronicle Financial Aid Guide** ,2000 Contemporary Sport Management

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