

Chapter 7: Cell Structure and Function

Central Concept: Cells have specific structures and functions that make them distinctive. Processes in a cell can be classified broadly as growth, maintenance, and reproduction.

State Standards:

- 2.1 Relate cell parts / organelles (Plasma membrane, nuclear envelope, nucleus, nucleolus, cytoplasm, mitochondrion, endoplasmic reticulum, Golgi apparatus, lysosome, ribosome, vacuole, cell wall, chloroplast, cytoskeleton, centriole, cilia, flagella, pseudopod) to their functions. Explain the role of cell membranes as a highly selective barrier (diffusion, osmosis, facilitated diffusion, active transport).
- 2.2 Compare and contrast, at the cellular level, the general structures and degrees of complexity of prokaryotes and eukaryotes.

Key Terms

Cell	Vacuole	Facilitated Diffusion
Cell Theory	Lysosome	Aquaporin
Cell Membrane	Cytoskeleton	Osmosis
Nucleus	Centriole	Isotonic
Eukaryote	Ribosome	Hypertonic
Prokaryote	Endoplasmic Reticulum	Hypotonic
Scanning Electron Microscope	Golgi Apparatus	Osmotic Pressure
Transmission Electron Microscope	Chloroplast	Homeostasis
Compound Light Microscope	Mitochondrion	Tissue
Cell Stain	Cell Wall	Organ
Cytoplasm	Lipid Bilayer	Organ System
Organelle	Selectively Permeable	Receptor
	Diffusion	Ecological Niche

You should be able to:

1. State the three parts of the cell theory.
2. Describe how the different types of microscopes work. (Light Microscopes, TEM, SEM)
3. Distinguish between prokaryotes and eukaryotes.
4. Describe the structure and function of the cell nucleus.
5. Describe the role of vacuoles, lysosomes, and the cytoskeleton.
6. Identify the role of ribosomes, endoplasmic reticulum, and Golgi apparatus in making proteins.
7. Describe the function of the chloroplast and mitochondria in the cell.
8. Describe the structure and function of the cell membrane.
9. Describe the term passive transport.
10. Describe the term active transport.
11. Explain what is meant by the term selective permeability.
12. Explain how unicellular organisms maintain homeostasis.
13. Explain how multicellular organisms maintain homeostasis.

Cell Structures Functions Study Guide Chapter 7

Sylvia S. Mader



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