

# 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:

7.1. State the cell parts / organelles (Plasma membrane, nuclear envelope, nucleolus, nucleoplasm, cytoplasm, microtubules, endoplasmic reticulum, Golgi apparatus, lysosomes, ribosomes, vesicles, cell wall, chloroplast, cytoskeleton, centriole, vesicle, organelle, peroxisome) and their functions. Explain the role of cell membranes as a highly selective barrier (diffusion, osmosis, facilitated diffusion, active transport).

7.2. Compare and contrast, at the cellular level, the general structures and degrees of complexity of prokaryotes and eukaryotes.

## Key Terms:

Cell  
Cell Theory  
Cell Membrane  
Nucleus  
Eukaryote  
Prokaryote  
Scanning Electron Microscope  
Transmission Electron Microscope  
Microscope  
Compound Light Microscope  
Cell Wall  
Cytoplasm  
Organelle

Microtubule  
Lysosome  
Cytoskeleton  
Centriole  
Vesicle  
Endoplasmic Reticulum  
Golgi Apparatus  
Chloroplast  
Microtubules  
Cell Wall  
Lipid Bilayer  
Selectively Permeable  
Diffusion

Facilitated Diffusion  
Aquaporin  
Osmosis  
Osmotic Pressure  
Hypotonic  
Hypotonic  
Osmotic Pressure  
Homeostasis  
Tonic  
Osmosis  
Osmotic Pressure  
Endoplasmic Reticulum  
Kinetics  
Electrochemical Gradient

## More about: See table 1:

1. State the three parts of the cell theory.
2. Describe how the different types of microscopes work. (Light microscopes, TEMs, SEMs)
3. Distinguish between prokaryotes and eukaryotes.
4. Describe the structure and functions of the cell nucleus.
5. Describe the role of microtubules, endoplasmic reticulum, and Golgi apparatus in making proteins.
6. Identify the role of microtubules, endoplasmic reticulum, and Golgi apparatus in making proteins.
7. Describe the functions of the chloroplasts and microtubules in the cell.
8. Describe the structure and functions 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 microtubules organize microtubule interactions.
13. Explain how microtubules organize microtubule interactions.

# Cell Structures Functions Study Guide Chapter 7

**David Karl Jemiolo, Garrett, Charles M.  
Grisham**

## Cell Structures Functions Study Guide Chapter 7:

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