

Chapter 7

Cell Structure and Function

Section 7–1 Life Is Cellular (pages 169–172)

This section explains what the cell theory is. It also describes the characteristics of two categories of cells, prokaryotes and eukaryotes.

Introduction (page 169)

1. What is the structure that makes up every living thing? The cell

The Cell Theory (pages 169–170)

2. What was Anton van Leeuwenhoek the first to see in the 1600s? He was the first person to see tiny living organisms in a drop of water.
3. What did a thin slice of cork seem like to Robert Hooke when he observed it through a microscope? The cork seemed to be made of tiny chambers.
4. What did the German botanist Matthias Schleiden conclude? He concluded that all plants are made of cells.
5. What did the German scientist Theodor Schwann conclude? He concluded that animals were also made of cells.
6. How did Rudolph Virchow summarize his years of work? He stated that where a cell exists, there must have been a preexisting cell.
7. What are the three concepts that make up the cell theory?
- All living things are composed of cells.
 - Cells are the basic units of structure and function in living things.
 - New cells are produced from existing cells.

Basic Cell Structures (page 171)

8. Complete the table about structures that are common to most cells.

COMMON CELL STRUCTURES

Structure	Description
Cell membrane	A thin, flexible barrier around the cell
Cell wall	A strong layer around the cell membrane in many cells
Nucleus	A large structure that contains the cell's genetic material and controls the cell's activities
Cytoplasm	The material inside a cell, not including the nucleus

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