

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

# Chapter 7 Cell Structure And Function Answers

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## **Chapter 7 Cell Structure And Function Answers:**

This book delves into Chapter 7 Cell Structure And Function Answers. Chapter 7 Cell Structure And Function Answers is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Chapter 7 Cell Structure And Function Answers, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
    - Chapter 1: Introduction to Chapter 7 Cell Structure And Function Answers
    - Chapter 2: Essential Elements of Chapter 7 Cell Structure And Function Answers
    - Chapter 3: Chapter 7 Cell Structure And Function Answers in Everyday Life
    - Chapter 4: Chapter 7 Cell Structure And Function Answers in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, the author will provide an overview of Chapter 7 Cell Structure And Function Answers. The first chapter will explore what Chapter 7 Cell Structure And Function Answers is, why Chapter 7 Cell Structure And Function Answers is vital, and how to effectively learn about Chapter 7 Cell Structure And Function Answers.
  3. In chapter 2, the author will delve into the foundational concepts of Chapter 7 Cell Structure And Function Answers. This chapter will elucidate the essential principles that need to be understood to grasp Chapter 7 Cell Structure And Function Answers in its entirety.
  4. In chapter 3, the author will examine the practical applications of Chapter 7 Cell Structure And Function Answers in daily life. This chapter will showcase real-world examples of how Chapter 7 Cell Structure And Function Answers can be effectively utilized in everyday scenarios.
  5. In chapter 4, this book will scrutinize the relevance of Chapter 7 Cell Structure And Function Answers in specific contexts. The fourth chapter will explore how Chapter 7 Cell Structure And Function Answers is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, this book will draw a conclusion about Chapter 7 Cell Structure And Function Answers. This chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Chapter 7 Cell Structure And Function Answers.

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