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 coll

The Cell Theory (pages 169-170)

- 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.
- What did the German botanist Matthias Schleiden conclude? He concluded that all plants are made of cells.
- What did the German scientist Theodor Schwann conclude? He concluded that animals were also made of cells.
- 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.
 - c. 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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Ch 4 Cell Structure And Function Worksheet Key

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<u>Visualizing Human Biology</u> Kathleen A. Ireland,2018-01-15 Visualizing Human Biology is a visual exploration of the major concepts of biology using the human body as the context Students are engaged in scientific exploration and critical thinking in this product specially designed for non science majors Topics covered include an overview of human anatomy and physiology nutrition immunity and disease cancer biology and genetics The aim of Visualizing Human Biology is a greater understanding appreciation and working knowledge of biology as well as an enhanced ability to make healthy choices and informed healthcare decisions *Study Guide for Man, Nature, and Society* Theodore W. Pohrte, L. Jack Pierce, 1975

Student Study Guide for Campbell's Biology Second Edition Martha R. Taylor, 1990 Cells .1997 Holt Biology Chapter Resource File 19 Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 Biology Sylvia S. Mader, 2004 This text covers the concepts and principles of biology from the structure and function of the cell to the organization of the biosphere It draws upon the world of living things to bring out an evolutionary theme The concept of evolution gives a background for the study of ecological principles **Biology** Sandra Alters, 2000 Designed for a one or two semester non majors course in introductory biology taught at most two and four year colleges This course typically fulfills a general education requirement and rather than emphasizing mastery of technical topics it focuses on the understanding of biological ideas and concepts how they relate to real life and appreciating the scientific methods and thought processes Given the authors work in and dedication to science education this text's writing style pedagogy and integrated support package are all based on classroom tested teaching strategies and learning theory. The result is a learning program that enhances the effectiveness efficiency of the teaching and learning experience in the introductory biology course like no other Telecourse Cycles of Life Gerald L. Kellogg, Starr, 1999-07 This guide provides students with a road map through before it the telecourse and contains assignments for reading viewing and doing related activities plus overviews of the content of each lesson and the accompanying video program For information about bundling it with any Starr textbook contact your Cengage Learning representative **Biochemistry** John W. Pelley, 1997 **Student Edition** Glencoe, 2001-05

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