

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>

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Prentice Hall Science Explorer: Teacher's ed, 2005 Chapter Resource 3 Cell Structure Biology Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 Key Skills in Information Technology P. M. Heathcote, R. P. Richards, 2000 Covers the IT skills needed to achieve the Key Skills Certificate in Information Technology at levels 2 and 3 and explains how the students can build a portfolio of evidence **SciencePlus Teaching Resourcer** Holt, Rinehart and Winston Staff, 1997

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taught in all secular institutions This dynamic education resource helps young people not only learn science from a biblical perspective but also helps them know how to defend their faith in the process *Holt Biology Chapter Resource File 19* Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2004 **Holt Science and Technology** Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2001 **Chapter Resource 38 Circulatory/Response Biology** Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2004 *Microsoft Office 2003* Stephen Haag,James T. Perry,Amy Phillips,Merrill Wells,Paige Baltzan,2004 Emphasizes that students learn and master applications skills by being actively engaged by doing Prior to introducing steps this I Series Applications textbook discusses why the steps students are about to experience are important and what role the steps play in the overall plan for creating a document workbook or database *The I-Series Microsoft Office Excel 2003 Complete* Stephen Haag,James T. Perry,2003-12 The I Series leads the student through clear error free and unambiguous steps to accomplish tasks that produce a finished document work sheet or database table The approach is not simply results oriented teaching how to accomplish a task is not enough for complete understanding and mastery Prior to introducing steps the authors discuss why each step is important and what roll all the steps play in the overall plan for creating a document workbook or database The I Series Applications textbooks strongly emphasize that students learn and master applications skills by being actively engaged by doing *Microsoft Office Excel 2003* Stephen Haag,James T. Perry,2004 Emphasizes that students learn and master applications skills by being actively engaged by doing Prior to introducing steps this I Series Applications textbook discusses why the steps students are about to experience are important and what role the steps play in the overall plan for creating a document workbook or database

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