

Name _____ Class _____ Date _____

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?
- a. All living things are composed of cells.
 - b. 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	<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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Chapter 7 Cell Structure And

Chapter 7 Cell Structure All living things are made of cells. Cells are made up of 3 main parts, Cell Membrane A skin that controls what enters the cell. Cytoplasm Watery substance that has proteins and sugar. Nucleus the control centre of the cell. It contains DNA. Cell Membrane Nucleus Cytoplasm. 07 Cell Structure Mr. C. Biology 3 October 17, 2013 Plant Cells and Animal Cells ...

Chapter 7 Cell Structure - Mr. C

Chapter Outline Chapter 7 Cell Structure Section 1: Introduction to Cells KEY IDEAS > How were cells discovered? > What defines cell shape and size? > What enables eukaryotes to perform more specialized functions that prokaryotes do? THE DISCOVERY OF CELLS > How were cells discovered? > Microscope observations of organisms led to the discovery of the basic characteristic common to all living ...

Chapter Outline Chapter 7 Cell Structure

Chapter 7 Cell Structure and Function Concept Map Class Date Graphic Organizer Animal cells include Using information from the chapter, complete the concept map below. If there is not enough room in the concept map to write your answers, write them on a separate sheet of paper. cells include CeVs include chloroplas function in Photosynthesis 88 Biochemistry 11 Inquiry - Home Chapter 7.1 Notes ...

Chapter 7 Cell Structure And Function Concept Map Answer Key

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3.2 Cell Structures. ATP. cell wall. central vacuole. chloroplast. energy-carrying molecule that cells use to power their metabol... rigid layer that surrounds the plasma membrane of a plant cell... large, sac-like organelle in plant cells that stores substance... organelle in the cells of plants and algae where photosynthesi... ATP. energy-carrying molecule that cells use to power their ...

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This is the second part of Ch. 7. It covers 7-3 and 7-4.

Ch. 7 Cell Structure and Function Part 2

CHAPTER 7 CELL STRUCTURE AND FUNCTION 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. Chapter 7 Cell Structure And Function Reviewing Key ...

Chapter 7 Cell Structure Function Section Review 2 Answer Key

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Name Chapter 7 Cell Structure and Function Reviewing Key Concepts Class Date Section Review 7-2 Matching On the lines provided, match the structure with

itsfunction in the cell. a. b. c. d. f. g. cell wall nucleus cytoskeleton endoplasmic reticulum Golgi apparatus chloroplast mitochondrion 1. 2. 3. 4.

Biochemistry 11 Inquiry - Home

Chapter 7, Cell Structure and Function (continued) Prokaryotes and Eukaryotes(page 172) 9. Complete the table about the two categories of cells. Category Definition Examples Prokaryotes Organisms whose cells Bacteria, including Escherichia coli lack nuclei and Staphylococcus aureus Eukaryotes Organisms whose cells Plants, animals, fungi, many contain nuclei microorganisms TWO CATEGORIES OF ...

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