

Cellular Structure and Function

Section 3 Structures and Organelles

Main Idea

Details

Skim Section 3 of the chapter. Write two questions that come to mind from reading the headings and the illustration captions.

1. _____
2. _____

Review Vocabulary

Use your book or dictionary to define enzyme.

enzyme

New Vocabulary

Write each term in the table under the heading that best describes it.

cell wall

centriole

chloroplast

cilium

cytoplasm

cytoskeleton

endoplasmic reticulum

flagellum

Golgi apparatus

lysosome

mitochondrion

nucleolus

ribosome

vacuole

Cell Structure (5)	Related to Genetic Material (2)	Food, Storage, and Waste (5)	Energy (2)

Compare and contrast each pair of terms by defining them and noting their differences.

Chloroplast	Mitochondrion
Vacuole	Centriole
Cilium	Flagellum

Section 3 Structures and Organelles (continued)

Main Idea _____

Details _____

Cytoplasm and Cytoskeleton

I found this information on page _____.

Compare *the cytoplasm and cytoskeleton by defining each in the boxes.*

Cytoplasm	Cytoskeleton

Cell Structures

I found this information on page _____.

Identify *the part of the cell that corresponds to each function described.*

	directs cell processes; contains the cell's DNA; stores information for cell growth, function, and reproduction
	double membrane that surrounds the nucleus
	helps manufacture proteins
	produces ribosomes inside the nucleus
	site of ribosome attachment; can be smooth or rough
	modifies, sorts, and packages proteins for transport outside the cell
	membrane-bound storage area within the cell
	vesicle that contains substances that digest excess or worn-out organelles
	structure near the nucleus that functions during cell division
	converts fuel particles (sugars) into useable energy
	captures light energy and converts it to chemical energy through photosynthesis
	gives support to plant cells
	projections that allow the cell to move or to move substances along the surface of the cell

Section 3 Structures and Organelles (continued)

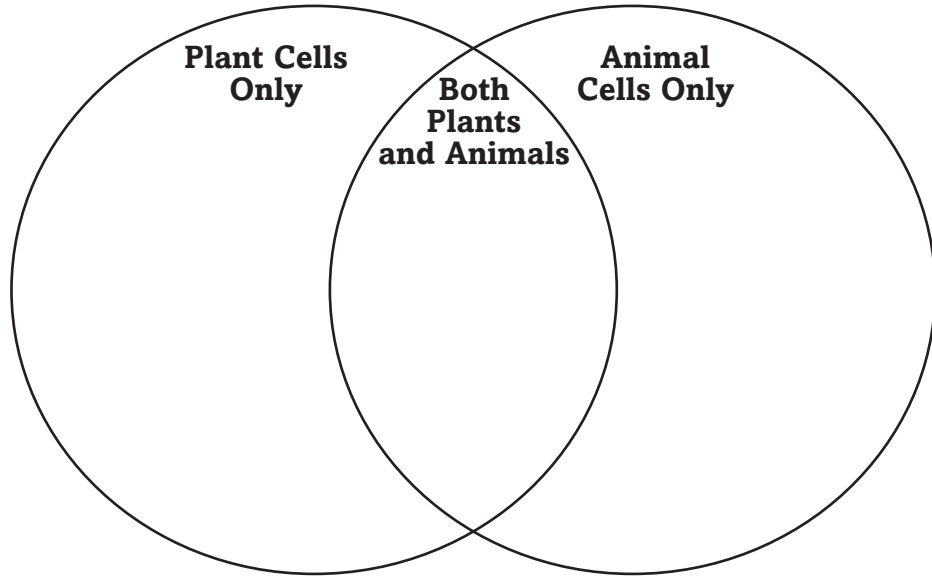
Main Idea _____

Details _____

Comparing Cells

I found this information on page _____.

Compare and contrast *the cell parts found in the following categories.*



Organelles

I found this information on page _____.

Model *a eukaryotic cell. Label the nucleus and five organelles.*



CONNECT

Create and describe a unique model for the structure and function of the cell.

