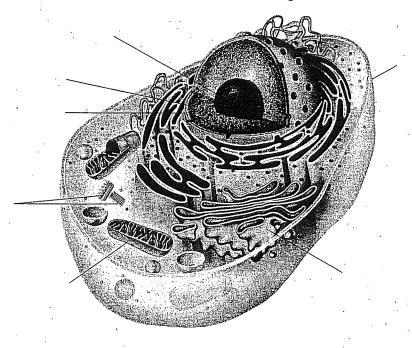
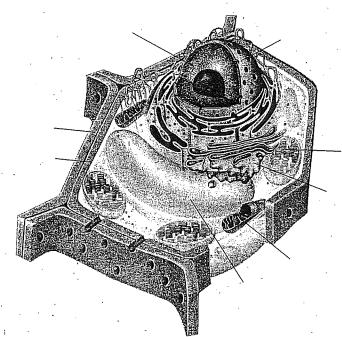
Section 7–2 Eukaryotic Cell Structure (pages 174-181)

- **Solution** Key Concept
 - What are the functions of the major cell structures?

Comparing a Cell to a Factory (page 174)

- 1. What is an organelle? ___
- 2. Label the structures on the illustrations of the plant and animal cells.





Nai	neClass	_ Date	
3.	Circle the letter of each structure that animal cells contain.	•	•
	a. chloroplasts		•
	b. lysosomes	•	F
	c. mitochondria	1	
	d. ER	,	
4.	Circle the letter of each structure that plant cells contain.		
	a. cell wall		*
	b. ER	•	
	c. lysosomes		,
	d. chloroplast		1
M. I	-V (474)		••
	cleus (page 176) What is the function of the nucleus?		
5.	virial is the function of the nucleus.		
6	What important molecules does the nucleus contain?		
ο.	What important molecules does the nucleus contain:		
17	The granular material visible within the nucleus is called		
/. Q	What does chromatin consist of?		•
٥.	What does chromatin consist of:		
0	What are chromosomes?		•
7.	What are chromosomes:		
		,	
			1
10	Most nuclei contain a small, dense region known as the		
	What occurs in the nucleolus?		•
TT.	What occurs in the nucleolus:		
10	IATh at in the muclean anyelene?		
12.	What is the nuclear envelope?	•	
	oosomes (page 177)		
13.	What are ribosomes?		

Class___'

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Name	Class		Date	
22. What are mitochondria?				
23. Are mitochondria found in plant	cells, animal cell	s, or both?		
24. Where are chloroplasts found?				
25. Biologist Lynn Margulis has sugg	gested that mitoc	hondria and cl	nloroplasts are	
descendants of what kind of orga			•	
•				
Cytoskeleton (page 181)			•	
26. What is the cytoskeleton?				
		·		

27. Complete the table about structures that make up the cytoskeleton.

STRUCTURES OF THE CYTOSKELETON

Structure	Description	Functions	
		Maintain cell shape, help build cilia and flagella, form centrioles in cell division	
		Support the cell, help cells move	

Name	Class	Date
· ·	•	

Match the organelle with its description.

Organelle

- ____ 28. Ribosome
- ____ 29. Endoplasmic reticulum
- _____ 30. Golgi apparatus
 - _____ 31. Lysosome
- _____ 32. Vacuole
- _____ 33. Chloroplast
- ____ 34. Mitochondrion

Description

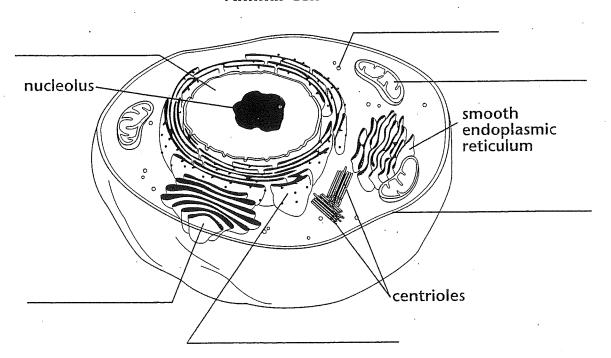
- a. Uses energy from sunlight to make energy-rich food
- Stack of membranes in which enzymes attach carbohydrates and lipids to proteins
- c. Uses energy from food to make highenergy compounds
- d. An internal membrane system in which components of cell membrane and some proteins are constructed
- e. Saclike structure that stores materials
- f. Small particle of RNA and protein that produces protein following instructions from nucleus
- g. Filled with enzymes used to break down food into particles that can be used

Animal Cell

Use the words below to label the animal cell. Some structures have already been labeled for you.

cell membrane mitochondrion rough endoplasmic reticulum ribosome

Animal Cell

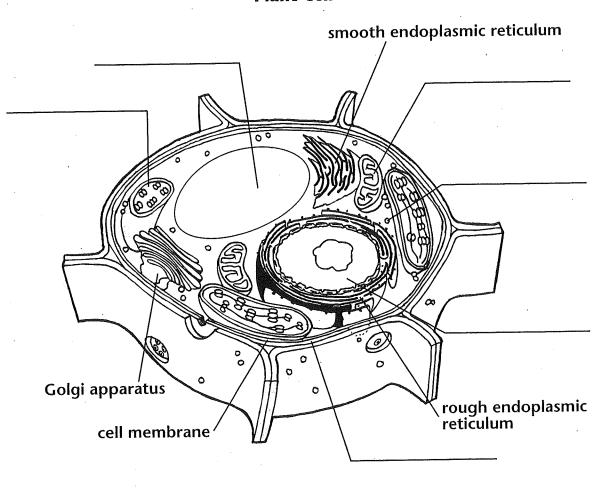


Plant Cell

Use the words below to label the plant cell. Some structures have already been labeled for you.

cell w		mitochondrion nucleus	ribosome vacuole
Cinore	r		

Plant Cell



Use the diagram to answer the questions.

1. Which structure is found in a plant cell but not in an animal cell? Circle the correct answer.

chloroplast

cell membrane

ribosome

2. What is the main function of vacuoles?