



Name \_\_\_\_\_

Period \_\_\_\_\_

Date \_\_\_\_\_

**SECTION**  
**3.2**

CELL ORGANELLES  
**Study Guide**

**KEY CONCEPT**

**Eukaryotic cells share many similarities.**

**VOCABULARY**

cytoskeleton	Golgi apparatus	lysosome
nucleus	vesicle	centriole
endoplasmic reticulum	mitochondrion	cell wall
ribosome	vacuole	chloroplast

**MAIN IDEA:** Cells have an internal structure.

1. Look at Figure 3.5 in your textbook. What are the functions of a cytoskeleton?

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2. How is a cytoskeleton like your skeleton?

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3. How is a cytoskeleton like your muscles?

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**MAIN IDEA:** Several organelles are involved in making and processing proteins.

Write either the function or the name of each organelle. Draw a sketch to help you remember it.

Organelle	Function	Sketch
4. nucleus		
5.	helps in the production of proteins and lipids	
6. ribosomes		
7. Golgi apparatus		
8.	carries certain molecules from place to place within a cell	

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## STUDY GUIDE, CONTINUED

**MAIN IDEA:** Other organelles have various functions.

Write the function of each organelle. Draw a sketch to help you remember it.

Organelle	Function	Sketch
9. mitochondrion		
10. vacuole		
11. lysosome		
12. centriole		

**MAIN IDEA:** Plant cells have cell walls and chloroplasts.

13. What role do cell walls play in a plant?

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14. What is the difference between a cell wall and a cell membrane?

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15. Why are chloroplasts important?

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### Vocabulary Check

16. Which cell part is a maze of folded membranes where proteins and lipids are produced?

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17. Which cell part converts food into energy that is usable by a cell?

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