



Name

Period

Date

**SECTION**  
**3.1**

CELL THEORY  
**Study Guide**

**KEY CONCEPT**

Cells are the basic unit of life.

**VOCABULARY**

cell theory	organelle	eukaryotic cell
cytoplasm	prokaryotic cell	

**MAIN IDEA:** Early studies led to the development of the cell theory.

In a phrase, tell what each scientist did to help develop the cell theory.

Scientist	Contribution to Cell Theory
1. Hooke	
2. Leeuwenhoek	
3. Schleiden	
4. Schwann	
5. Virchow	

6. What are the three parts of the cell theory?

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7. Give two reasons why the cell theory is important.

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## STUDY GUIDE, CONTINUED

**MAIN IDEA:** Prokaryotic cells lack a nucleus and most internal structures of eukaryotic cells.

In the top left side of the Y shape below, write the characteristics of eukaryotic cells. In the top right side of the Y shape below, write the characteristics of prokaryotic cells. At the bottom of the Y shape below, write the characteristics that both kinds of cells have in common. Then lightly cross out those characteristics at the top of the Y.

<b>Eukaryotic cells</b>	<b>Prokaryotic cells</b>
_____	_____
_____	_____
_____	_____
_____	_____
<b>Both</b>	
_____	
_____	
_____	
_____	

### Vocabulary Check

8. What is cytoplasm?

\_\_\_\_\_

9. Where do you find organelles?

\_\_\_\_\_

10. What statements summarize scientists' concepts of cells?

\_\_\_\_\_

11. Which type of cells have no nucleus?

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