	Name	Date	Class
--	------	------	-------

Cell Structure and Function ■ Guided Reading and Study

## **Discovering Cells**

This section describes how the invention of the microscope led to the development of a theory on cells. The section also explains how a light microscope works.

## **An Overview of Cells**

1.	What are cells?			

## **First Observations of Cells**

•	What did the invention of the microscope make possible?
	An instrument that makes small objects look larger is a(n)
	Is the following sentence true or false? A compound

<b>5.</b>	Complete the following table about the first people to observe
	cells

microscope has only one lens.

The First People to Observe Cells				
Questions	Robert Hooke	Anton van Leeuwenhoek		
What kind of microscope did he use?				
What did he first look at with the microscope?				

## **Development of the Cell Theory**

6.	<ul><li>List the three points of the cell theory.</li><li>a</li><li>b</li></ul>				
	c				
Liç	ght and Electron Microscopes				
8.	Is the following sentence true or false? Magnification is the ability to make things look larger than they are.				
9.	How do the lenses of a light microscope make an object look larger?				
10.	In a convex lens, the of the lens is thicker than the				
11.	What is resolution?				
12.	A microscope that uses a beam of electrons to examine a specimen is called a(n)				
13.	Circle the letter of the microscope that has better resolution.				
	<ul><li>a. light microscope</li><li>b. electron microscope</li></ul>				

Name		Date	Class
Cell Structure and Funct	ion <b>■</b> Review a	and Reinforce	
Discovering C	ells		
Understanding Main			
Fill in the blanks in the tal			
	Discovering (	Cells	
Scientist	Con	tribution	
1	One	of the first people to	observe cells
Leeuwenhoek	2		
3			are made up of cells
Schwann	4		
5		osed that all cells co	
7. State how an electron r	nicroscope differs fr	om a light microscope.	
8. Explain how cells are r	elated to living thing	gs.	
Building Vocabulary  Match each term with its do  the blank beside the term.	efinition by writing t	he letter of the correct	definition in
<b>9.</b> cell		<ul> <li>a. a widely accepted explanation of the relationship between cells and living</li> </ul>	
things			una nymg
<ul><li>11. cell theory</li><li>b. the basic unit of structure and function in living things</li></ul>			

 ${f c.}$  any instrument that makes small objects

look larger