Name	Date	Class
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**Cell Structure and Function** • Guided Reading and Study

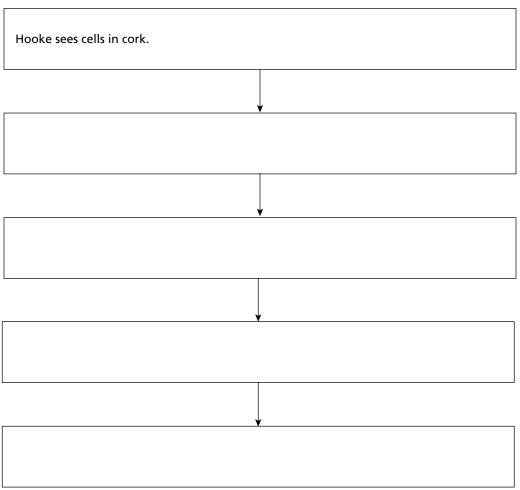
## **Discovering Cells**

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.

## **Use Target Reading Skills**

As you read, construct a flowchart showing how the work of Hooke, Leeuwenhoek, Schleiden, Schwann, and Virchow contributed to scientific understanding of cells.

## **Discovering Cells**



## **An Overview of Cells**

1.	What are cells?		

Na	ime	Date	Class			
Ce	ell Structure and Function	n • Guided Reading and S	Study			
Di	iscovering Cells (co	ntinued)				
Fii	st Observations of C	ells				
2.	What did the invention	of the microscope make poss	ible?			
3.	An instrument that makes small objects look larger is a(n)					
4.	Is the following sentence true or false? A compound microscope has only one lens					
5.	Complete the following table about the first people to observe cells.					
	T	he First People to Observe C	ells			
Ç	Questions	Robert Hooke	Anton van Leeuwenhoek			
	What kind of microscope id he use?					
	What did he first look at with the microscope?					
	evelopment of the Co	_				
6.	to develop the cell theor	e true or false? Theodor Schw ry	ann worked alone -			
7.	List the three points of t	the cell theory.				
	a					
	b					
	с					

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Naı	me Date Class
Cel	Il Structure and Function • Guided Reading and Study
Lig	tht 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>