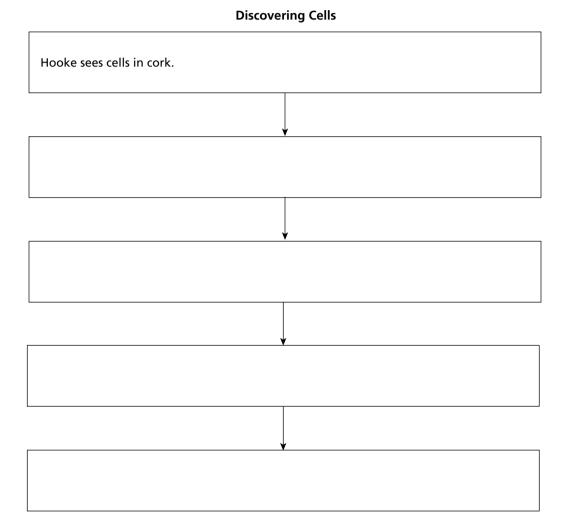
Living Things • Guided Reading and Study

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.



An Overview of Cells

1. What are cells?

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Discovering Cells (continued) **First Observations of Cells**

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- What did the invention of the microscope make possible? 2.
- An instrument that makes small objects look larger is a(n) 3.
- 4. Is the following sentence true or false? A compound microscope has only one lens.
- Complete the following table about the first people to observe cells. 5.

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. Is the following sentence true or false? Theodor Schwann worked alone to develop the cell theory.
- 7. List the three points of the cell theory.

С. _____

N	ame	

Living Things • Review and Reinforce

Light and Electron Microscopes

- 8. Is the following sentence true or false? Magnification is the ability to make things look larger than they are.
- How do the lenses of a light microscope make an object look larger? 9.
- **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.
 - **a.** light microscope
 - **b.** electron microscope