

SECTION

THE CELL IS THE BASIC UNIT OF LIVING THINGS.

1.1 Reading Study Guide B**BIG IDEA** All living things are made up of cells.**KEY CONCEPT** The cell is the basic unit of living things.**Review**

A theory is something that explains what is observed in nature.

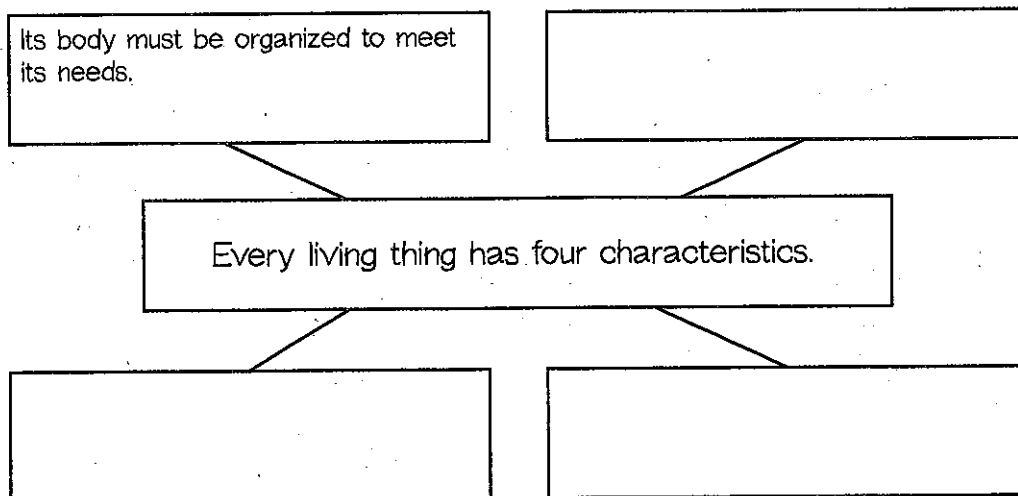
Take Notes**I. Living things are different from nonliving things. (p. 9)**

1. Fill in the four-square diagram for
- organism*
- .

Definition:		Characteristics:	
Examples:		Nonexamples:	

A. Characteristics of Life and Needs of Life (p. 10)

2. Fill in the main idea web for the main idea shown.



3. What are the three things every organism needs in order to live?

II. All living things are made of cells. (p. 11)

4. In the table below, write a definition and one example for each word.

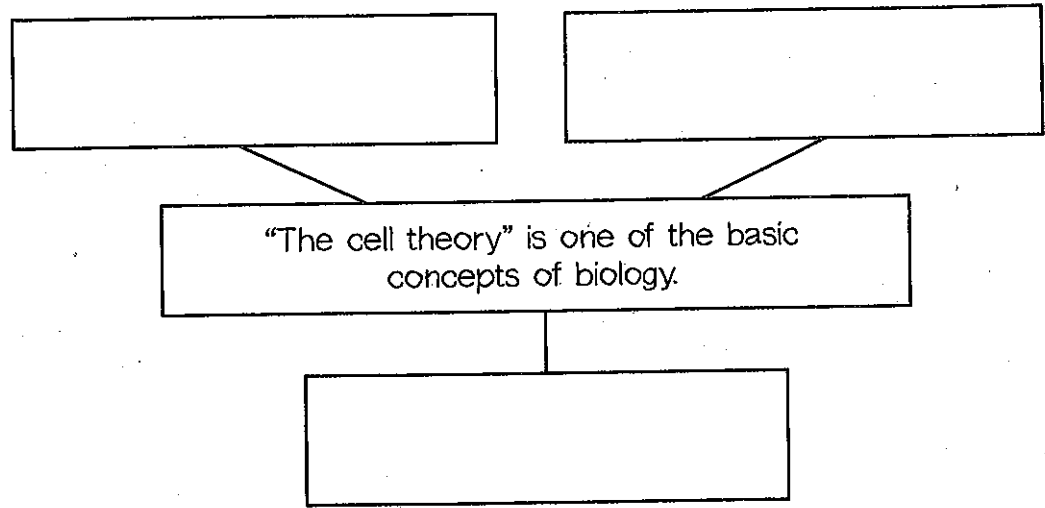
	Definition	Example
Unicellular		
Multicellular		

III. The microscope led to the discovery of cells. (p. 12)

5. Why did people not know about cells before the invention of the microscope?

IV. Cells come from other cells. (p. 13)

6. Fill in the main idea web for the main idea shown.



V. The cell theory is important to the study of biology. (p. 14)

A. Louis Pasteur and Bacteria and Spontaneous Generation (p. 14)

7. A modern scientist is trying to repeat Pasteur's experiment. In step one, she boils a nutrient broth. In step two, she seals the broth and lets it sit for one week. For step three, explain what the broth will look like after the week has passed, and why.

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1.1 Reinforcing Key Concepts**BIG IDEA** All living things are made up of cells.**KEY CONCEPT** The cell is the basic unit of living things.

1. **Living things are different from nonliving things.** All living things have certain characteristics. Write one characteristic and two examples in the table below.

Characteristic	Plant	Bird

2. **All living things are made of cells.** Some living things are just a single cell, while others are made up of many cells. How can an organism that is only one cell be considered a living thing?

3. **The microscope led to the discovery of cells.** Most cells are too small to see without the aid of a microscope. Who is credited with the discovery of cells? Why were they named cells?

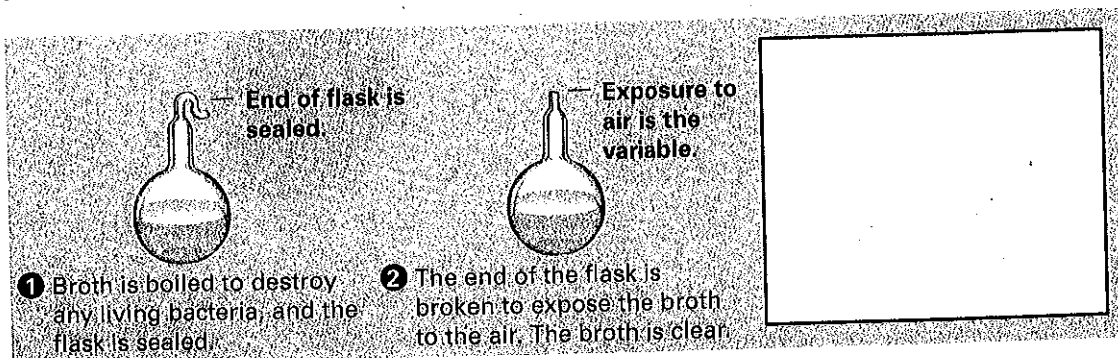
4. **Cells come from other cells.** Complete the three points of the cell theory below.

1. All living things are made of one or more cells.

2. _____

3. _____

5. **The cell theory is important to the study of biology.** Draw the last step of Louis Pasteur's experiment. Explain your drawing and why it helps to prove the cell theory.



Alike But Different

Name _____ Date _____ Hour _____

Unicellular Organisms

Multicellular Organisms

What We Have In Common

What Makes Us Unique

How I Will Remember