

Living Things ▪ *Guided Reading and Study*

What Is Life?

This section explains the characteristics of living things and what living things need to survive.

Use Target Reading Skills

Look at the section headings and visuals to see what this section is about. Then write what you already know about living things in the graphic organizer below. As you read, write what you learn.

What You Know
1. Living things grow.
2.

What You Learned
1.
2.

The Characteristics of Living Things

1. What is an organism?



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What Is Life? *(continued)*

2. List six characteristics that all living things share.
 - a. _____
 - b. _____
 - c. _____
 - d. _____
 - e. _____
 - f. _____
3. The basic building blocks of all organisms are _____ .
4. Is the following sentence true or false? Most cells can be seen only with a microscope, a tool that magnifies small objects. _____
5. Is the following sentence true or false? An organism made of many cells is a unicellular organism. _____
6. Circle the letter of the most abundant chemical in cells.
 - a. proteins
 - b. carbohydrates
 - c. water
 - d. nucleic acids
7. Lipids and _____ are the building materials of cells.
8. Is the following sentence true or false? The cells of organisms use energy for growth and repair. _____
9. Circle the letter of a change in an organism's surroundings that causes the organism to react.
 - a. growth
 - b. response
 - c. stimulus
 - d. development

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10. Give one example of a stimulus and one example of a response.

Stimulus: _____

Response: _____

11. What is development?

12. All organisms can _____, or produce offspring that are similar to the parents.

Life Comes From Life

13. Is the following sentence true or false? Flies can arise from rotting meat.

14. The idea that living things can come from nonliving sources is called

_____.

15. What did Francesco Redi show in his experiment?

16. The factor that a scientist changes in a controlled experiment is the _____

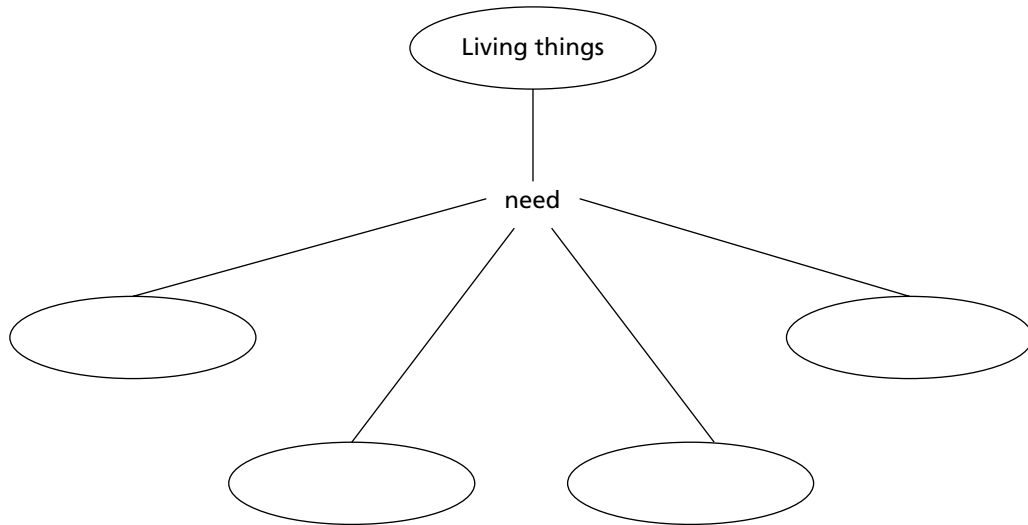
_____.

17. Is the following sentence true or false? Louis Pasteur used a controlled experiment to show that bacteria arise from spontaneous generation.

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The Needs of Living Things

18. Complete this concept map to show what living things need to survive.



19. Is the following sentence true or false? Living things use food as their energy source to carry out their life functions. _____

20. Organisms that make their own food are called _____.
Organisms that cannot make their own food are called _____.

21. Is the following sentence true or false? Living things can live without water for long periods of time. _____

22. What property of water makes it vital to living things?

23. Is the following sentence true or false? Organisms compete with each other for space to live. _____

24. Why must living things have homeostasis, or stable internal conditions?
