

Viruses and Bacteria ▪ *Guided Reading and Study*

Bacteria

This section explains what bacteria are, their positive roles, and how they reproduce.

Use Target Reading Skills

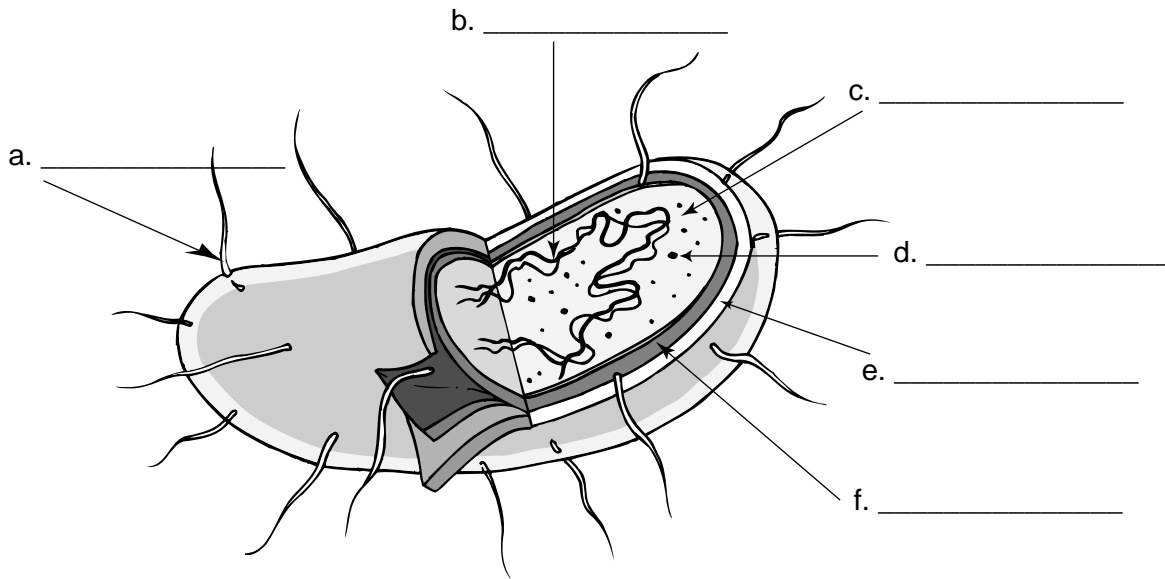
After you read the section, reread the paragraphs that contain definitions of Key Terms. Use all the information you have learned to write a definition of each Key Term in your own words.

The Bacterial Cell

- Bacteria are _____. The genetic material in their cells is not contained in a nucleus.
- Is the following sentence true or false? Bacteria are living organisms because they use energy, grow, and respond to their surroundings.

- What three shapes can bacterial cells have?
 - _____
 - _____
 - _____
- Circle the letter of the cell structures where proteins are made.

a. cell wall	b. cytoplasm
c. ribosomes	d. flagellum
- Label the parts of a bacterial cell in this diagram.



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Bacteria *(continued)*

6. Is the following sentence true or false? Bacteria that do not have flagella are never moved from one place to another.

Obtaining Food and Energy

7. List the two ways in which autotrophic bacteria make food.
- a. _____
- b. _____
8. How do heterotrophic bacteria get food?
- _____
- _____
9. Is the following sentence true or false? All bacteria must use oxygen to break down food for energy. _____

Reproduction in Bacteria

10. Complete the table below about reproduction in bacteria.

Reproduction in Bacteria

	Asexual Reproduction	Sexual Reproduction
Name of Process		
Number of Parents		
What Occurs in Process		
Result of Process		

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11. When do bacteria form endospores?

The Role of Bacteria in Nature

12. Circle the letter of each sentence that is true about bacteria.

- a. All bacteria are harmful and cause disease.
- b. As autotrophic bacteria use the sun's energy to produce food, they release oxygen into the air.
- c. Bacteria help produce foods such as cheese, apple cider, and olives.
- d. Bacteria do not cause food to spoil.

13. Soil bacteria that break down large chemicals in dead organisms into small chemicals are called _____.

14. Is the following sentence true or false? Bacteria are used to clean up oil spills and gasoline leaks. _____

15. List three ways that bacteria in your digestive system are helpful to you.

- a. _____
- b. _____
- c. _____

16. How do bacteria help people with diabetes?
