

Bacteria Shapes

Bacteria are the smallest and simplest living things. They come in three basic shapes: spheres, rods, and spirals. The figures below show the three shapes. **Write the name of the shape below each figure.**



1. _____



2. _____



3. _____

Bacteria Naming

Bacteria usually live in groups. The names of bacteria often tell how the bacteria are grouped. If the name starts with *Diplo-*, the bacteria live in pairs. If the name starts with *Staphylo-*, they live in clusters like grapes. If the name starts with *Strepto-*, they live in chains. The figures below show these three groups. **Use the prefix and shape terms to name the bacteria below.**



4. _____



5. _____



6. _____

Circle the letter of the choice that best completes the statement.

7. Scientists think the first bacteria on Earth were:
a. aerobic. b. anaerobic. c. fatal. d. oxygen-dependent.
8. Bacteria that contain chlorophyll *a* belong in the group:
a. archaeobacteria. b. chemoautotrophs. c. cyanobacteria. d. pathogens.
9. Bacteria that are obligate anaerobes release energy from food by:
a. cellular respiration. b. using oxygen. c. using nitrogen. d. fermentation.
10. As an endospore, a bacterium:
a. produces toxin. b. dries out. c. causes disease. d. is protected.
11. Botulism is caused by endospores of *Clostridium botulinum* that have:
a. been killed. b. produced toxins. c. germinated. d. reproduced.
12. Nitrogen is important because all organisms need it to make:
a. proteins. b. ATP. C. DNA. d. all of these.
13. The process by which bacteria use enzymes to convert nitrogen gas into ammonia is called:
a. nitrogenation. b. conjugation. c. nitrogen fixation. d. eutrophication.
14. Bacteria that return nutrients to the environment by breaking down :
a. dead organic matter. b. inorganic materials.
b. enzymes and sugar. d. nitrogen in legumes.
15. Bacteria are **not** used to make:
a. vinegar. b. jams. c. cheese. d. yogurt.
16. Disease causing bacteria are known as:
a. cocci. b. bacilli. c. pathogens. d. archaeobacteria.
17. Bacteria are responsible for the following disease:
a. strep throat and tetanus. b. gonorrhea and syphilis.
c. tuberculosis and diphtheria. d. all of these.
18. Due to reduced death rates from bacterial diseases and improved sanitation and living conditions, the average person born in the United States today will live to be about:
a. 25 years old. b. 50 years old. c. 75 years old. d. 90 years old.