



# knowledge quiz

## Bacteria

Name \_\_\_\_\_

1. Which statement is true about bacteria?
  - A. Bacteria are living organisms that consist of one cell.
  - B. Bacteria are the smallest of all living things.
  - C. Bacteria are the oldest and most diverse life forms.
  - D. All three statements are true.**
2. There are three common shapes of bacteria. They are
  - A. rods, spheres, and spirals.**
  - B. rods, spirals, and tubes.
  - C. spheres, hexagons, and spirals.
  - D. none of the above.
3. Some bacteria are used to fight off harmful infections. Where would you find these helpful bacteria in the human body?
  - A. on your skin
  - B. in your intestines
  - C. in your nose and throat
  - D. on your skin and in your intestines, nose, and throat**
4. What is the significance of scientist Alexander Fleming accidentally finding a single mold growing in a used petri dish?
  - A. All petri dishes should be sterilized to prevent cross contamination.
  - B. It was the first form of cell mutation.
  - C. It was penicillin, a powerful antibiotic that kills bacteria.**
  - D. He had created a toxic substance without even trying.
5. In which of these foods might you find E. coli?
  - A. undercooked beef and non-pasteurized milk and fruit juice**
  - B. raw chicken, skim milk, and raw eggs
  - C. any milk or fruit juice that's left out in the sun
  - D. all of the above



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6. What do bacteria in our soils and waterways do to help our environment?
  - A. They serve as food for other organisms.
  - B. They decompose dead organisms and animal wastes into chemical elements.**
  - C. Once ingested, they can protect animals from transmitted diseases.
  - D. They can protect plants from diseases.
  
7. Bacteria have adapted to live in
  - A. the ocean.
  - B. the desert and hot springs.
  - C. snow or polar regions.
  - D. any climate.**
  
8. What has caused some bacteria to become drug-resistant?
  - A. the misuse of antibiotics to try and cure viral infections like the common cold
  - B. that 50 percent of all antibiotics end up in animal feed, creating super bacteria
  - C. both 1 and 2**
  - D. none of the above
  
9. What do helpful bacteria do for humans and animals?
  - A. They help digest food and destroy harmful organisms in the intestines.**
  - B. Intestinal bacteria help the body absorb vitamins.
  - C. They ward off warts.
  - D. They live in their stomachs to help digest food.
  
10. Which of the following is an example of how bacteria can help change a chemical into a form that can be used by plants?
  - A. Some bacteria convert carbon monoxide in the air into nutrients for plants.
  - B. Some bacteria convert nitrogen in soil into nitrate.**
  - C. Some bacteria convert oxygen in water into nitrogen used by plants.
  - D. Some bacteria convert nitrogen in water into nitrogen used by plants.