

Brainpop—Bacteria

Name:

Period:

Watch the Brainpop on bacteria, then answer the questions below.

_____ 1. What does Tim mean when he says bacteria are the most abundant form of life on Earth?

- a. they're extremely small
- b. they're found in every environment
- c. they're more of them than any other form of life
- d. they're the most dangerous things on Earth

_____ 2. What might happen if you didn't have bacteria in your digestive tract?

- a. your intestines would stop working
- b. your body couldn't digest certain types of food
- c. you would never get sick
- d. you would die

_____ 3. Nitrogen-fixing bacteria help plants thrive. What do nitrogen-fixing bacteria do?

- a. absorb harmful nitrogen from the bodies of plants
- b. absorb nitrogen in the soil before it harms plants
- c. convert nitrogen in the soil into a form that plants can absorb

_____ 4. What effect do antibiotics have on bacteria?

- a. they help bacteria get bigger
- b. they prevent bacteria from digesting food
- c. they destroy bacteria
- d. they make bacteria reproduce more slowly

_____ 5. What term best describes the function of flagella in bacteria?

- a. locomotion
- b. digestion
- c. absorption
- d. reproduction

_____ 6. How did bacteria make complex life on Earth possible?

- a. by releasing oxygen into the atmosphere
- b. by destroying volcanoes
- c. by changing rapidly into multi-celled organisms
- d. by killing off all of the dinosaurs

_____ 7. In which of the following extreme environments can bacteria be found?

- a. inside your digestive tract
- b. deep ocean vents
- c. hot springs
- d. salt lakes
- e. all of the above

_____ 8. By studying bacteria in extreme environments, what do scientists learn?

- a. how bacteria can survive inside us
- b. what life was like billions of years ago
- c. why all plants rely upon bacteria
- d. when life first appeared on Earth

Determine if the statement is true or false. If false, replace the word in **bold** with the correct word on the line. If true, write "true" on the line. Possible word choices are provided below:

antibiotics digestion microscope single

1. _____ Bacteria are **MULTIPLE**-celled microscopic organisms.
2. _____ **VITAMINS** are a type of medication used to kill bacteria.
3. _____ Some types of bacteria can make their own energy through **PHOTOSYNTHESIS**.
4. _____ Bacteria are so small that scientists need a **TELESCOPE** to see them.

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We know that bacteria are responsible for a variety of diseases, including strep throat and food poisoning. Bacteria were first discovered in 1676 when they were seen by a scientist looking through a microscope. Before 1676, did bacteria cause any diseases? Explain your answer.