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EXERCISE 2 SURVEY OF PROKARYOTES_____

QUESTIONS:

1. a. Why is it important that decomposers such as bacteria release nutrients?

It is important that decomposers such as bacteria release nutrients because these nutrients become a part of the environment's soil and nurtures plant growth.

- b. What term best describes heterotrophic bacteria?

Heterotrophic bacteria are best described as bacteria that derive their energy from organic molecules made by other molecules.

PROCEDURE: COMMON BACTERIA

2. What are the common shapes of bacterial colony?

Common shapes of bacterial colonies include rod-shaped, spherical and spiral colonies.

PROCEDURE: OBSERVE STAINED BACTERIA WITH OIL IMMERSION MAGNIFICATION

3. Is *Bacillus megaterium* Gram-positive or Gram-negative? How do you know?

Bacillus megaterium is gram-positive, you can see this from its pigment.

PROCEDURE: OBSERVE ROOT NODULES

4. a. Why is this relationship between a plant and bacterium called mutualism?

The relationship between these two is called mutualism because both benefit from each other.

The plant benefits from the bacterias transformation of chemicals, while the bacteria benefits from the plant by getting its nutrients.

- b. How does *Rhizobium* benefit from this association?

Rhizobium benefits from a mutualism relationship by getting energy of photosynthesis from the plant.

- c. How does the host plant benefit from the association?

Rhizobium fixes atmospheric nitrogen for the plants.

PROCEDURE: EXAMINE CYANOBACTERIA

Survey 2 Lab Manual

**William Dwight Whitney, Benjamin Eli
Smith**



Survey 2 Lab Manual:

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