

4.1 Studying Ecology

Levels of Ecological Organization

For Questions 1 and 2, circle the letter of the correct answer.

1 The most basic level of ecological organization is a(n)

- A biosphere.
 B individual.
 C ecosystem.
 D population.
- 2 The study of living and nonliving components of a system can best be described as a(n)
 A abiotic factor.
 - B level hierarchy.
 - C ecosystem ecology.
 - D organism interaction.
- 3 Describe how a species is commonly defined.
- 4 What is community ecology? Give examples.

Biotic and Abiotic Factors

Humidity

Frog

5 Organize Information Fill in the T-chart with three examples each

Sunlight

Abiotic Factors	Biotic Factors
1.	1.
2.	2.
3.	3.

bacteria

Mushroom

pH

6 Is a fallen, rotting tree considered an abiotic or biotic factor? Explain.
Habitat

For Questions 7 and 8, complete each statement by writing in the correct word.
8 Habitats provide organisms with the _______ they need to live, such as food, shelter, breeding sites, and mates.
9 Compare and contrast an ecosystem and a habitat.

10 Explain why organization is important to the study of ecology.

11 Why are dead or decaying organisms still considered important parts of an ecosystem?