

Evaluate: Ecology 1

INSTRUCTOR:

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Instructions: Answer the following questions to demonstrate your understanding of ecosystems, energy flow, and natural cycles.

Part 1: Matching Vocabulary

Match the vocabulary term to the correct definition by writing the appropriate term in the blank.

Definitions:

1. _____ The process plants use to make food using sunlight
2. _____ An organism that breaks down dead matter
3. _____ The role an organism plays in its environment
4. _____ A living part of an ecosystem
5. _____ A non-living part of an ecosystem
6. _____ The movement of water through evaporation, condensation, and precipitation
7. _____ A diagram showing how energy moves from one organism to another
8. _____ The movement of carbon between land, air, and water through processes like respiration and photosynthesis
9. _____ An organism that eats other organisms for energy
10. _____ The process where bacteria help convert nitrogen in the atmosphere into a form plants can use

Vocabulary Terms (Scrambled Order):

- | | | |
|-------------------------|--------------------------|--------------------------|
| A. Water Cycle | E. Food Chain | I. Nitrogen Cycle |
| B. Niche | F. Producer | J. Decomposer |
| C. Biotic Factor | G. Abiotic Factor | |
| D. Consumer | H. Carbon Cycle | |

Part 2: Multiple Choice

Circle the correct answer.

11. Which of the following is a biotic factor in an ecosystem?

- | | |
|-------------|----------|
| a) Sunlight | c) Trees |
| b) Soil | d) Water |

d) Water

d) Eagle

d) Sun \rightarrow Hawk \rightarrow Grass \rightarrow Rabbit

c) It allows plants to absorb sunlight

Name: _____

Date: _____

Question: Based on the data, describe the relationship between rainfall and the deer population. Why do you think the population changed over time?

17. Explanation Question

Explain how the carbon cycle supports life on Earth. In your response, describe at least two processes that move carbon between the atmosphere, land, and water.