

Name: [REDACTED] of Biology

Chapter 42 Active Reading Guide Ecosystems and Energy

Directions:

1. What is an ecosystem?
a. An ecosystem is a community of living organisms interacting with their physical environment.
2. Where does energy enter most ecosystems? How is it converted to chemical energy and then passed through the ecosystem? Where does the energy stored in plants go?
a. Energy enters an ecosystem as light. The sun's energy is captured by plants through photosynthesis.
3. How is energy transferred from producers to consumers? How is it lost from the system?
a. Energy is transferred from producers to consumers through feeding. Energy is lost from the system through respiration and excretion.
4. How is energy stored in ecosystems? How is it used?
a. Energy is stored in the chemical bonds of organic molecules. It is used for growth, reproduction, and movement.
5. How is energy lost from the system? How is it recycled?
a. Energy is lost from the system through respiration and excretion. Matter is recycled through the ecosystem.

Directions 2

1. Both energy and matter can be recycled. True or False?
a. False. Energy cannot be recycled, but matter can.
2. The efficiency of energy transfer from producers to consumers is low. Why?
a. The efficiency of energy transfer is low because most of the energy is lost through respiration and excretion.
3. Let three groups of organisms that are photosynthetic autotrophs.
a. Group 1: 100% efficient. Group 2: 10% efficient. Group 3: 1% efficient.
4. What are the primary producers of the deep-sea vent?
a. Chemosynthetic bacteria.
5. The energy transfer efficiency is low. Why?
a. The energy transfer efficiency is low because most of the energy is lost through respiration and excretion.
6. The energy transfer efficiency is low. Why?
a. The energy transfer efficiency is low because most of the energy is lost through respiration and excretion.

What is the main point of the chapter? The main point of the chapter is that energy flows through ecosystems and is lost at each step, while matter is recycled.

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Scott C. Dulebohn



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