

Name: _____ of Biology

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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 transferred through the ecosystem? Where does the energy stored in plants go?
a. Energy enters an ecosystem through photosynthesis. Plants use sunlight to produce glucose, which is then used by other organisms in the ecosystem.
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 released?
a. Energy is stored in ecosystems as chemical energy in the form of organic molecules. It is released through respiration and excretion.

Directions 2

1. Both energy and matter can be recycled. Energy can not be recycled.
a. Why? Energy flows from the sun to producers and then to consumers. It is not recycled.
2. The efficiency of energy transfer from producers to consumers is low. Why is this? Is there any energy lost? What happens to the energy that is lost?
a. The efficiency of energy transfer is low because of the second law of thermodynamics. Energy is lost as heat at every step of the transfer.
3. List three groups of organisms that are photosynthetic autotrophs.
a. Plants, algae, and cyanobacteria.
4. What are the primary producers of the deep-sea vent?
a. Chemosynthetic bacteria.
5. This concept outlines trophic relationships. Know all terms in your textbook that are related. What are trophic levels? What is always at the first trophic level?
a. Trophic levels are the feeding levels in an ecosystem. The first trophic level is always occupied by producers.
6. The primary producers of the deep-sea vent are chemosynthetic bacteria. What is the source of energy for these bacteria?
a. The source of energy for these bacteria is the oxidation of inorganic compounds.

What is the main point of this chapter? The main point of this chapter is to understand the flow of energy and matter in ecosystems. Energy flows from the sun to producers and then to consumers. Matter is recycled within the ecosystem. The efficiency of energy transfer is low, and energy is lost as heat at every step of the transfer.

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Alfred Emanuel Smith, Francis Walton



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Critical Care Study Guide Gerard J. Criner, Gilbert E. D'Alonzo, 2013-03-09 Critical care medicine is a dynamic and exciting arena where complex pathophysiologic states requiring extensive knowledge and clinical acumen are commonly found. Caring for critically ill patients requires an extensive knowledge of basic pathophysiology as well as awareness of the appropriate diagnostic tests and therapeutic interventions. Because this knowledge base crosses many different disciplines, introduction to caring for the intensive care patient while exciting may also be intimidating. This textbook is designed toward making the dynamic environment of the critical care unit understandable and the approach to the patient both logical and successful. The book contains three components: 1. description of the procedural tasks commonly performed for the critically ill patient; 2. explanation of the most common pathophysiologic states encountered; and 3. description of specific disease entities with details of their differential diagnosis, diagnostic strategy, and therapeutic plan. This book also uses several educational approaches that we have found useful in our own teaching sessions and prior textbooks. Clinical cases introduce chapters and highlight chapter segments to emphasize clinical relevancy. As an additional study aid, margin notes highlight important teaching points and facilitate easy review of chapter content. To consolidate the principles outlined in each chapter, review questions with full text explanations are provided at the end of each chapter. All these elements help reinforce the most important messages for the reader.

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