

Skills Worksheet

Active Reading

Section: Energy Flow in Ecosystems

Read the passage below and answer the questions that follow.

Energy from the sun enters an ecosystem when a plant uses sunlight to make sugar molecules by a process called *photosynthesis*. During photosynthesis, plants, algae, and some bacteria capture solar energy. Solar energy drives a series of chemical reactions that require carbon dioxide and water. The result of photosynthesis is the production of sugar molecules known as *carbohydrates*. Carbohydrates are energy-rich molecules which organisms use to carry out daily activities. As organisms consume food and use energy from carbohydrates, the energy travels from one organism to another. Plants produce carbohydrates in their leaves. When an animal eats a plant, some energy is transferred from the plant to the animal. Organisms use this energy to move, grow, and reproduce.

IDENTIFYING MAIN IDEAS

One reading skill is the ability to identify the main idea of a passage. The main idea is the main focus or key idea. Frequently a main idea is accompanied by supporting information that offers detailed facts about main ideas.

In the space provided, write the letter of the term or phrase that best completes each statement or best answers each question.

- _____**
- 1.** Plants, algae, and some bacteria capture _____ during photosynthesis.
a. solar energy
b. carbohydrates
c. carbon dioxide
d. organisms
- _____**
- 2.** The chemical reactions driven by solar energy require _____.
a. carbon dioxide and water.
b. plants and algae.
c. organisms and water.
d. carbon dioxide and sugar molecules.
- _____**
- 3.** During photosynthesis, plants make _____.
a. carbohydrates.
b. carbon dioxide.
c. water.
d. None of the above
- _____**
- 4.** Where does the production of carbohydrates in a plant take place?
a. in the carbohydrates
b. in the leaves
c. in the ecosystem
d. in the stems

Active Section Energy Flow In Ecosystems

Victor M. Corman



Active Section Energy Flow In Ecosystems:

Ecosystems Biology 2004 Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 **Prentice Hall Science Explorer: Teacher's ed**, 2005 *Marine Ecology* Michel J. Kaiser, Simon Jennings, David Thomas, 2020 There has never been a more important time to understand our marine environment Oceans influence our climate and provide a valuable source of food to billions of people They are vital to our very existence and they are under threat Clearly written and beautifully illustrated *Marine Ecology Processes Systems and Impacts* addresses the fundamental global processes of primary and microbial production that characterize marine systems before going on to detail the diverse systems we see around the world from coral reefs to polar regions from the shores to the deep sea The third section of the book *Impacts* tackles some of the most pressing environmental issues relevant to marine ecology including climate change conservation pollution disturbance the impact of fisheries and aquaculture New to this edition A new chapter on Climate Change equips you to think more deeply about climate related issues by explaining the mechanisms through which oceans respond to the altering climate A new chapter on Sea and Society delves into the economic and sociological relationship between human beings and the ocean helping you to fully understand the value of marine ecosystems to mankind and how to manage this relationship responsibly A comprehensive update of the Microbial Production chapter has re organised and refreshed the scientific material presented to give a thorough grounding in the chemical principles that inform key microbial processes in marine ecology Book jacket *UGC NET Environmental Studies Paper II Chapter Wise Notebook | Complete Preparation Guide* EduGorilla Prep Experts, 2022-09-01 Best Selling Book in English Edition for UGC NET Environmental Studies II Exam with objective type questions as per the latest syllabus given by the NTA Increase your chances of selection by 16X UGC NET Environmental Studies Paper II Kit comes with well structured Content Chapter wise Practice Tests for your self evaluation Clear exam with good grades using thoroughly Researched Content by experts **Methods in Ecosystem Science** Osvaldo E. Sala, Robert B. Jackson, Harold A. Mooney, Robert W. Howarth, 2013-12-01 Ecology at the ecosystem level has both necessitated and benefited from new methods and technologies as well as those adapted from other disciplines With the ascendancy of ecosystem science and management the need has arisen for a comprehensive treatment of techniques used in this rapidly growing field *Methods in Ecosystem Science* answers that need by synthesizing the advantages disadvantages and tradeoffs associated with the most commonly used techniques in both aquatic and terrestrial research The book is divided into sections addressing carbon and energy dynamics nutrient and water dynamics manipulative ecosystem experiments and tools to synthesize our understanding of ecosystems Detailed information about various methods will help researchers choose the most appropriate methods for their particular studies Prominent scientists discuss how tools from a variety of disciplines can be used in ecosystem science at different scales **ENTERprise Information Systems, Part I** Joao Eduardo Quintela Varajao, Maria Manuela Cruz-Cunha, Goran D. Putnik, Antonio Trigo, 2010-10-08 *Fishery Ecosystem*

Dynamics Michael J. Fogarty, Jeremy S. Collie, 2020-07-24 Fisheries supply a critically important ecosystem service by providing over three billion people with nearly 20% of their daily animal protein intake Yet one third of the world's fish stocks are currently harvested at unsustainable levels Calls for the adoption of more holistic approaches to management that incorporate broader ecosystem principles are now being translated into action worldwide to meet this challenge The transition from concept to implementation is accompanied by the need to further establish and evaluate the analytical framework for Ecosystem Based Fishery Management EBFM The objectives of this novel textbook are to provide an introduction to this topic for the next generation of scientists who will carry on this work to illuminate the deep and often underappreciated connections between basic ecology and fishery science and to explore the implications of these linkages in formulating management strategies for the 21st century Fishery Ecosystem Dynamics will be of great use to graduate level students as well as academic researchers and professionals both governmental and NGO in the fields of fisheries ecology and management

Principles of Ecology and Environmental Management Mr. Rohit Manglik, 2024-03-04 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

CBSE (Central Board of Secondary Education) Class X - Science Topic-wise Notes | A Complete Preparation Study Notes with Solved MCQs Mr. Rohit Manglik, 2023-07-07 EduGorilla's CBSE Class X Science Study Notes are the best selling notes for Class X exams Their content is well researched and covers all topics related to CBSE Class X Science The notes are designed to help students prepare thoroughly for their exams with topic wise notes that are comprehensive and easy to understand The notes also include solved multiple choice questions MCQs for self evaluation allowing students to gauge their progress and identify areas that require further improvement These notes include Topics such as Chemical Reactions Carbon and Compounds Life Processes Reproduction Effects of Current Heredity and Evolution These notes are perfect for understanding the pattern and type of questions asked by CBSE These study notes are tailored to the latest syllabus of CBSE Class X Science exams making them a valuable resource for exam preparation

Fire in California's Ecosystems Jan W. van Wagtendonk, 2018-06-08 Fire in California's Ecosystems describes fire in detail both as an integral natural process in the California landscape and as a growing threat to urban and suburban developments in the state Written by many of the foremost authorities on the subject this comprehensive volume is an ideal authoritative reference tool and the foremost synthesis of knowledge on the science ecology and management of fire in California Part One introduces the basics of fire ecology including overviews of historical fires vegetation climate weather fire as a physical and ecological process and fire regimes and reviews the interactions between fire and the physical plant and animal components of the environment Part Two explores the history and ecology of fire in each of California's nine bioregions Part Three examines fire management in California during Native American and

post Euro American settlement and also current issues related to fire policy such as fuel management watershed management air quality invasive plant species at risk species climate change social dynamics and the future of fire management This edition includes critical scientific and management updates and four new chapters on fire weather fire regimes climate change and social dynamics

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