## **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
- The chemical reactions driven by solar energy require
  - carbon dioxide and water.
  - b. plants and algae.

- c. organisms and water.
- carbon dioxide and sugar molecules.
- \_\_\_\_ 3. During photosynthesis, plants make
  - a. carbohydrates.

c. water.

b. carbon dioxide.

- d. None of the above
- 4. Where does the production of carbohydrates in a plant take place?
  - in the carbohydrates

c. in the ecosystem

b. in the leaves

d. in the stems

# **Holt Environmental Science Ch 15 Answer Key**

Donald Mackay, Wan-Ying Shiu, Kuo-Ching Ma, Sum Chi Lee

#### **Holt Environmental Science Ch 15 Answer Key:**

Holt Science and Technology Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2001 **Forthcoming** Handbook of Physical-Chemical Properties and Environmental Fate for Organic **Books** Rose Arny, 2003-04 Chemicals, Second Edition Donald Mackay, Wan-Ying Shiu, Kuo-Ching Ma, Sum Chi Lee, 2006-03-14 Transport and transformation processes are key for determining how humans and other organisms are exposed to chemicals These processes are largely controlled by the chemicals physical chemical properties This new edition of the Handbook of Physical Chemical Properties and Environmental Fate for Organic Chemicals is a comprehensive series in four volumes that serves as a reference source for environmentally relevant physical chemical property data of numerous groups of chemical substances The handbook contains physical chemical property data from peer reviewed journals and other valuable sources on over 1200 chemicals of environmental concern The handbook contains new data on the temperature dependence of selected physical chemical properties which allows scientists and engineers to perform better chemical assessments for climatic conditions outside the 20 25 degree range for which property values are generally reported. This second edition of the Handbook of Physical Chemical Properties and Environmental Fate for Organic Chemicals is an essential reference for university libraries regulatory agencies consultants and industry professionals particularly those concerned with chemical synthesis emissions fate persistence long range transport bioaccumulation exposure and biological effects of chemicals in the environment This **Books in Print Supplement** ,2002 Ate Science Plus 2002 LV Red Holt. resource is also available on CD ROM <u>Illustrated Handbook of Physical-Chemical Properties of Environmental Fate for Organic</u> Rinehart & Winston, 2001-02 Chemicals Donald Mackay, Wan Ying Shiu, Kuo-Ching Ma, 1997-08-11 The fifth volume Pesticides completes this unique series of information packed handbooks on environmental fate The handbook contains fate calculations for a variety of pesticides of environmental interest today No other volume offers current data in this convenient format Cryobanking the Genetic Resource Paul Watson, William V. Holt, 2001-02-16 There is a growing awareness of a worldwide reduction in biodiversity and the urgent need to develop ways to redress the problem This is the first major book devoted to the subject of genetic resource banking GRB and its role in preserving global animal biodiversity In Cryobanking the Genetic Resource expert contributors provide the non specialist with an overview of the subject and the practical techniques associated with GRB The book presents a basic introduction to the concepts and then points the way to relevant literature for those who wish to develop practical applications The first section deals with the potential contribution of GRB to biodiversity protection while the second section offers an introduction to the basic cryobiology of gametes and embryos In the first section genetic considerations for planning interventions are discussed together with disease control measures. This section explores related reproductive technologies necessary for the use of cryopreserved gametes and embryos as well as a range of other issues such as ownership and security of stored material and the size and location of cryopreserved material The second section

offers a thorough review of the literature on cryopreservation of spermatozoa oocytes and embryos It gathers species into related groups for ease of reference and does not assume extensive specialist knowledge so that newcomers to the field can make the best use of the available research This book is an essential resource for zoologists and conservationists with an interest in genetic management and captive breeding and also for students involved in biodiversity issues conservation and assisted reproduction Technical Books and Monographs Sponsored by the U.S. Atomic Energy Commission U.S. Atomic Energy Commission.1976 Biology, 1996 Processes, Mechanisms and Solutions in Coastal Wetland to Adapt to Changing Environment Qing Wang, Dongdong Shao, Yu Zhang, Qin Zhu, 2025-06-05 Coastal wetlands provide precious ecological services for us like coastal protection carbon storage flooding mitigation production and so on Mangrove saltmarsh sea grass oyster reef and coral reef are typical types of coastal wetland each type has its unique adaptive strategy to climate change through some processes and mechanisms Some of them are well known to us but most are unrecognized as they are far away from our living environment Furthermore in the context of climate change and anthropogenic influence the external disturbance is more complicated and changeable causing the responses of species and the related processes more secluded and unpredictable Therefore the multilevel processes or mechanisms in coastal wetland to adapt to climate change as well as the solutions is urgent and important to face the new challenges Coastal wetlands lie in the transition zone between lands and seas defending us from storms and floodings and providing important and valuable ecosystem services such as carbon stock and biodiversity maintenance However coastal wetlands are vulnerable and are one of the most physically disturbed ecosystems on earth because they are always in hydrodynamic conditions under the interactions among tides waves runoffs and so on Furthermore the combined impacts of climate change and human activities have caused more uncertainties and complexities on the environmental factors which imposed unparalleled impacts on the diversity distribution and ecological performance of coastal wetland ecosystem globally

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