

Chapter 8 Reading Guide – ANSWER KEY

- As a review, define the terms **autotroph** and **heterotroph**. Keep in mind that plants have mitochondria and chloroplasts and do both cellular respiration and photosynthesis! **Autotrophs are able to sustain themselves without eating other living organisms or material derived from living organisms. Autotrophs make their own "food" through either photosynthesis (solar energy → glucose) or chemosynthesis (inorganic materials such as methane and hydrogen sulfide → organic molecules). Autotrophs are also known as producers. Heterotrophs must consume other organisms for energy. Decomposers (some bacteria and fungi) are considered heterotrophs.**
- Draw a picture of a chloroplast and label the **stroma**, **thylakoid**, **thylakoid space**, **inner membrane**, and **outer membrane**.



- Use both chemical symbols and words to write out the formula for photosynthesis. $6\text{CO}_2 + 6\text{H}_2\text{O} + \text{Light Energy} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$. Carbon dioxide reacts with water and energy from the sun to produce glucose and oxygen. Photosynthesis is another example of a redox reaction where carbon dioxide is reduced to glucose and water is oxidized to oxygen. The electrons increase in potential energy as they move from water to sugar (endergonic). The energy is provided by the sun.
- Photosynthesis is not a single process, but two processes, each with multiple steps.
 - Explain what occurs in the **light reactions** stage of photosynthesis. Be sure to use **NADP+** and **photophosphorylation** in your discussion. **The light reactions occur in the thylakoid membranes of the chloroplasts. During the light reactions, water is split which provides a source of electrons and H⁺ ions (protons). When water is split, oxygen gas is released as a byproduct. Light absorption by chlorophyll transfer electrons and H⁺ to an electron carrier called NADP+. The light reactions also generate ATP, using chemiosmosis to power the addition of a phosphate to ADP. This is called photophosphorylation. At the end of the light reactions, light energy is converted into chemical energy store in ATP and NADPH. (No sugar yet!)**
 - Explain the **Calvin cycle**, utilizing the term **carbon fixation** in your discussion. **The Calvin cycle occurs in the stroma of the chloroplasts. The Calvin cycle begins with the incorporation of carbon dioxide from the air into organic molecules already present in the chloroplast. This is known as carbon fixation. The Calvin cycle then reduces the fixed carbon into carbohydrates by adding electrons provided NADPH. Chemical energy is supplied by ATP. The end result of the Calvin cycle is carbohydrate molecules called G3P which consist of 3 carbons each. G3P molecules are used to produce glucose.**

Chapter 55 Ecosystems Ap Biology Reading Guide Answers

A Gutmann



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Handbook of Cumulative Impact Assessment Jill A.E. Blakley, Daniel M. Franks, 2021-05-28 This important Handbook is an essential guide to the state of the art concepts debates and innovative practices in the field of cumulative impact assessment It helps to strengthen the foundations of this challenging field identify key issues demanding solutions and summarize recent trends in forward progress particularly through the use of illustrative case examples Thorp and Covich's Freshwater Invertebrates James H. Thorp, D. Christopher Rogers, 2014-09-06 Readers familiar with the first three editions of Ecology and Classification of North American Freshwater Invertebrates edited by J H Thorp and A P Covich will welcome the comprehensive revision and expansion of that trusted professional reference manual and educational textbook from a single North American tome into a developing multi volume series covering inland water invertebrates of the world The series entitled Thorp and Covich s Freshwater Invertebrates edited by J H Thorp begins with the current Volume I Ecology and General Biology edited by J H Thorp and D C Rogers which is designed as a companion volume for the remaining books in the series Those following volumes provide taxonomic coverage for specific zoogeographic regions of the world starting with Keys to Nearctic Fauna Vol II and Keys to Palearctic Fauna Vol III Volume I maintains the ecological and general biological focus of the previous editions but now expands coverage globally in all chapters includes more taxonomic groups e g chapters on individual insect orders and covers additional functional topics such as invasive species economic impacts and functional ecology As in previous editions the 4th edition of Ecology and Classification of North American Freshwater Invertebrates is designed for use by professionals in universities government agencies and private companies as well as by undergraduate and graduate students Global coverage of aquatic invertebrate ecology Discussions on invertebrate ecology phylogeny and general biology written by international experts for each group Separate chapters on invasive species and economic impacts and uses of invertebrates Eight additional chapters on insect orders and a chapter on freshwater millipedes Four new chapters on collecting and culturing techniques ecology of invasive species economic impacts and ecological function of invertebrates Overall expansion of ecology and general biology and a shift of the even more detailed taxonomic keys to other volumes in the projected 9 volume series Identification keys to lower taxonomic levels *Selected Water Resources Abstracts* ,1987 **Whitaker's Books in Print** ,1998 **Bulletin of the Atomic Scientists** ,1975-03 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world **Choice** ,1993 **Selected Water Resources Abstracts** ,1987 Microsoft Encarta College Dictionary Anne H. Soukhanov, 2001-07-13 Easy to use quick definition system The most new words more than 32 000 entries and definitions Preeminent coverage of high technology words **Subject Guide to Books in Print** ,1983 Index to Theses with Abstracts Accepted for Higher Degrees by the Universities of Great Britain and Ireland and the Council for National

Academic Awards ,2006 *Who's who in America* ,2003 Technical Information Appropriate for Developing Countries ,1986 *Forthcoming Books* Rose Army,1998-06 Wildlife of the Australian Snow-country Ken Green,William S. Osborne,1994 This lavishly illustrated guide designed for both amateur naturalists and specialists describes the mammals birds reptiles frogs fish insects and other invertebrates found in those regions of Australia with regular extended winter snow cover Discusses the distribution breeding food and behaviour of these animals and also gives a general description of the geology climate and ecological features of the snow country environment and the evolution of the snow country fauna Includes references a glossary and an index **Government Reports Announcements & Index** ,1994 *Who's who in the South and Southwest* ,2005 Includes names from the States of Alabama Arkansas the District of Columbia Florida Georgia Kentucky Louisiana Mississippi North Carolina Oklahoma South Carolina Tennessee Texas and Virginia and Puerto Rico and the Virgin Islands **The Engineering Index Annual** ,1994 Since its creation in 1884 Engineering Index has covered virtually every major engineering innovation from around the world It serves as the historical record of virtually every major engineering innovation of the 20th century Recent content is a vital resource for current awareness new production information technological forecasting and competitive intelligence The world s most comprehensive interdisciplinary engineering database Engineering Index contains over 10 7 million records Each year over 500 000 new abstracts are added from over 5 000 scholarly journals trade magazines and conference proceedings Coverage spans over 175 engineering disciplines from over 80 countries Updated weekly **Books in Print** ,1993-09 V 1 Authors A D v 2 Authors E K v 3 Authors L R v 4 S Z v 5 Titles A D v 6 Titles E K v 7 Titles L Q v 8 Titles R Z v 9 Out of print out of stock indefinitely v 10 Publishers Agindex ,1994 *Bibliographic Index* ,2002

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