

## Chapter 8 Reading Guide – ANSWER KEY

1. 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.
2. Draw a picture of a chloroplast and label the **stroma**, **thylakoid**, **thylakoid space**, **inner membrane**, and **outer membrane**.



3. 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.
4. Photosynthesis is not a single process, but two processes, each with multiple steps.
  - a. Explain what occurs in the **light reactions** stage of photosynthesis. Be sure to use **NADP<sup>+</sup>** 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  $\text{H}^+$  ions (protons). When water is split, oxygen gas is released as a byproduct. Light absorption by chlorophyll transfer electrons and  $\text{H}^+$  to an electron carrier called NADP<sup>+</sup>. 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!)
  - b. 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 8 Ap Biology Study Guide Answers

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## Chapter 8 Ap Biology Study Guide Answers:

**AP Biology Study Guide** Sundar Nathan,2009-11 Sundar Nathan received a Bachelor s degree in Electrical Engineering from Anna University Chennai India and a Masters degree in Biomedical Engineering from the University of Texas at Austin Working for over a year with a team of talented Phds MPhils and MScs from all over the world Sundar compiled this comprehensive study guide to help students prepare diligently understand the concepts and Crush the AP Bio Test **My Max Score AP Biology** Robert Stewart Jr.,2012 Provides advice for taking the AP biology exam discussing test taking strategies a review of the subject matter a study guide and a practice exam with answers **Student Study Guide to Accompany Human Biology** Sylvia S. Mader,2003-08 This best selling text emphasizes the relationship between humans and other living things Intended for an introductory course this text provides students with a firm grasp of how their bodies function and how the human population can become more fully integrated into the biosphere An Online Learning Center tied directly to the text via icons will direct students to activities or animations that gives a visual example of difficult processes as well as Working Together boxes to emphasize homeostasis **Applications of Service Learning in Higher Education** Watson, Sandy White,2024-03-22 In higher education a pressing issue has emerged how to authentically connect academic pursuits with real world challenges The last decade has witnessed an escalating call for heightened interaction between universities and the real world Demands have grown for higher education institutions to instill democratic citizenship and address students moral development In response to this rise in demand there has been a notable shift toward emphasizing service learning within academia As educators grapple with the imperative to seamlessly integrate theory and practice Applications of Service Learning in Higher Education steps into the forefront delving into the myriad applications of service learning to effectively address this critical issue Applications of Service Learning in Higher Education examines the complexities surrounding service learning in higher education At its core the book aims to showcase concrete examples of successful service learning applications acting as a catalyst for the integration of this transformative pedagogy into the academic fabric Beyond the surface the book delves into the intricate planning execution and assessment stages of service learning projects whether manifested within local communities or on an international scale It seeks to fill notable knowledge gaps particularly in less explored regions like Latin America and the Caribbean and underscores the significance of multidisciplinary experiences As the narrative unfolds the book addresses the symbiotic relationship between service learning and students programs of study transforming communities into vibrant classrooms where learning transcends traditional boundaries **Study Guide for Starr and Taggart's Biology, the Unity and Diversity of Life** Jane B. Taylor,1989 *Williams Gynecology, Third Edition, Study Guide* Claudia L. Werner,Elysia Moschos,William F. Griffith,Victor E. Beshay,David D. Rahn,Debra L. Richardson,Barbara L. Hoffman,2016-11-05 Gain a better understanding of the basic principles of gynecology presented in Williams Gynecology Third Edition with this full color study guide Directly derived from

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**Applied Mechanics Reviews** ,1995      **Biology** ,1998      **Biology** Neil A. Campbell,Jane B. Reece,2005 Neil Campbell and Jane Reece s BIOLOGY remains unsurpassed as the most successful majors biology textbook in the world This text has invited more than 4 million students into the study of this dynamic and essential discipline The authors have restructured each chapter around a conceptual framework of five or six big ideas An Overview draws students in and sets the stage for the rest of the chapter each numbered Concept Head announces the beginning of a new concept and Concept Check questions at the end of each chapter encourage students to assess their mastery of a given concept New Inquiry Figures focus students on the experimental process and new Research Method Figures illustrate important techniques in biology Each chapter ends with a Scientific Inquiry Question that asks students to apply scientific investigation skills to the content of the chapter

**Current Literature** ,1930      **Subject Guide to Books in Print** ,1997      **El-Hi Textbooks and Serials in Print, 1996** R R Bowker Publishing,Bowker,1996-02      *Science Books & Films* ,1989      *Psychology* David G. Myers,2011-12-25 David Myers bestselling Psychology has reached a wider audience of students and instructors with each new edition Myers and his team lead the field in being attuned to psychology s research and the needs of the instructors and students in the course today Ten million student class testers and thousands of adopting instructors can attest to the quality of this project True to form this landmark new Tenth Edition is another vigorous deeply considered revision      **Subject Guide to**

**Children's Books in Print 1997** Bowker Editorial Staff,R R Bowker Publishing,1996-09      *The Publishers' Trade List Annual* ,1969      The Education Gazette of the Province of the Cape of Good Hope Cape of Good Hope (South Africa).

Education Department,1905      **The Biology of Human Aging** John K. Hampton,1991      The Publishers Weekly ,1895

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