

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⁺** 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!)
 - 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.

Ap Chapter Photosynthesis Answers

**Peter J. Mikulecky,Michelle Rose
Gilman,Brian Peterson**



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Kaplan AP Biology 2016 Linda Brooke Stabler, Mark Metz, Allison Wilkes, 2015-08-04 The Advanced Placement exam preparation guide that delivers 75 years of proven Kaplan experience and features exclusive strategies practice and review to help students ace the NEW AP Biology exam Students spend the school year preparing for the AP Biology exam Now it s time to reap the rewards money saving college credit advanced placement or an admissions edge However achieving a top score on the AP Biology exam requires more than knowing the material students need to get comfortable with the test format itself prepare for pitfalls and arm themselves with foolproof strategies That s where the Kaplan plan has the clear advantage Kaplan s AP Biology 2016 has been updated for the NEW exam and contains many essential and unique features to improve test scores including 2 full length practice tests and a full length diagnostic test to identify target areas for score improvement Detailed answer explanations Tips and strategies for scoring higher from expert AP teachers and students who scored a perfect 5 on the exam End of chapter quizzes Targeted review of the most up to date content and key information organized by Big Idea that is specific to the revised AP Biology exam Kaplan s AP Biology 2016 provides students with everything they need to improve their scores guaranteed Kaplan s Higher Score guarantee provides security that no other test preparation guide on the market can match Kaplan has helped more than three million students to prepare for standardized tests We invest more than 4 5 million annually in research and support for our products We know that our test taking techniques and strategies work and our materials are completely up to date for the NEW AP Biology exam Kaplan s AP Biology 2016 is the must have preparation tool for every student looking to do better on the NEW AP Biology test AP Biology For Dummies Peter J. Mikulecky, Michelle Rose Gilman, Brian Peterson, 2008-06-02 Relax The fact that you re even considering taking the AP Biology exam means you re smart hard working and ambitious All you need is to get up to speed on the exam s topics and themes and take a couple of practice tests to get comfortable with its question formats and time limits That s where AP Biology For Dummies comes in This user friendly and completely reliable guide helps you get the most out of any AP biology class and reviews all of the topics emphasized on the test It also provides two full length practice exams complete with detailed answer explanations and scoring guides This powerful prep guide helps you practice and perfect all of the skills you need to get your best possible score And as a special bonus you ll also get a handy primer to help you prepare for the test taking experience Discover how to Figure out what the questions are actually asking Get a firm grip on all exam topics from molecules and cells to ecology and genetics Boost your knowledge of organisms and populations Become equally comfortable with large concepts and nitty gritty details Maximize your score on multiple choice questions Craft clever responses to free essay questions Identify your strengths and weaknesses Use practice tests to adjust you exam taking strategy Supplemented with handy lists of test taking tips must know terminology and more AP Biology For Dummies helps you make exam day a very good day indeed *Cracking the AP Biology Exam* Kim Magloire, Princeton Review (Firm), 2004

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