

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.

Biology Photosynthesis Guide Answer Key

Marcel A. Müller



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Table of Contents Biology Photosynthesis Guide Answer Key

1. Understanding the eBook Biology Photosynthesis Guide Answer Key
 - The Rise of Digital Reading Biology Photosynthesis Guide Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Biology Photosynthesis Guide Answer Key
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Biology Photosynthesis Guide Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Biology Photosynthesis Guide Answer Key
 - Personalized Recommendations
 - Biology Photosynthesis Guide Answer Key User Reviews and Ratings
 - Biology Photosynthesis Guide Answer Key and Bestseller Lists
5. Accessing Biology Photosynthesis Guide Answer Key Free and Paid eBooks

- Biology Photosynthesis Guide Answer Key Public Domain eBooks
 - Biology Photosynthesis Guide Answer Key eBook Subscription Services
 - Biology Photosynthesis Guide Answer Key Budget-Friendly Options
6. Navigating Biology Photosynthesis Guide Answer Key eBook Formats
- ePub, PDF, MOBI, and More
 - Biology Photosynthesis Guide Answer Key Compatibility with Devices
 - Biology Photosynthesis Guide Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Biology Photosynthesis Guide Answer Key
 - Highlighting and Note-Taking Biology Photosynthesis Guide Answer Key
 - Interactive Elements Biology Photosynthesis Guide Answer Key
8. Staying Engaged with Biology Photosynthesis Guide Answer Key
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Biology Photosynthesis Guide Answer Key
9. Balancing eBooks and Physical Books Biology Photosynthesis Guide Answer Key
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Biology Photosynthesis Guide Answer Key
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Biology Photosynthesis Guide Answer Key
- Setting Reading Goals Biology Photosynthesis Guide Answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Biology Photosynthesis Guide Answer Key
- Fact-Checking eBook Content of Biology Photosynthesis Guide Answer Key
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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