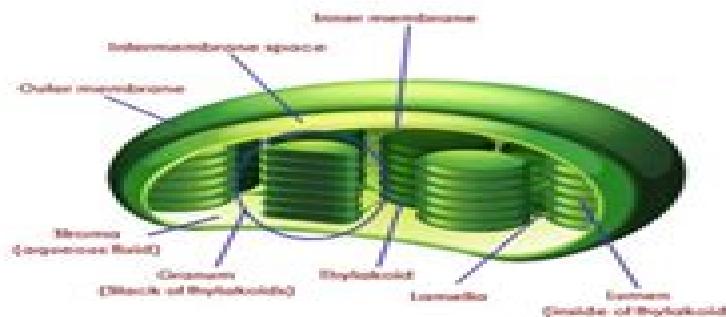


- As a review, define the terms **autotroph** and **heterotroph**. Keep in mind that plants have mitochondria and chloroplasts and do both cellular respiration and photosynthesis! Autotrophs are able to sustain themselves without eating other living organisms or material derived from living organisms. Autotrophs make their own “food” through either photosynthesis (solar energy  $\rightarrow$  glucose) or chemosynthesis (inorganic materials such as methane and hydrogen sulfide  $\rightarrow$  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  $\text{H}^+$  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+**. 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 stored 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.

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**Tamar Aprahamian, Robert  
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## **Table of Contents Ap Biology Study Guide Answers Chapter**

1. Understanding the eBook Ap Biology Study Guide Answers Chapter
  - The Rise of Digital Reading Ap Biology Study Guide Answers Chapter
  - Advantages of eBooks Over Traditional Books
2. Identifying Ap Biology Study Guide Answers Chapter
  - 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 Ap Biology Study Guide Answers Chapter
  - User-Friendly Interface
4. Exploring eBook Recommendations from Ap Biology Study Guide Answers Chapter
  - Personalized Recommendations
  - Ap Biology Study Guide Answers Chapter User Reviews and Ratings
  - Ap Biology Study Guide Answers Chapter and Bestseller Lists
5. Accessing Ap Biology Study Guide Answers Chapter Free and Paid eBooks

- Ap Biology Study Guide Answers Chapter Public Domain eBooks
- Ap Biology Study Guide Answers Chapter eBook Subscription Services
- Ap Biology Study Guide Answers Chapter Budget-Friendly Options

6. Navigating Ap Biology Study Guide Answers Chapter eBook Formats

- ePUB, PDF, MOBI, and More
- Ap Biology Study Guide Answers Chapter Compatibility with Devices
- Ap Biology Study Guide Answers Chapter Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Ap Biology Study Guide Answers Chapter
- Highlighting and Note-Taking Ap Biology Study Guide Answers Chapter
- Interactive Elements Ap Biology Study Guide Answers Chapter

8. Staying Engaged with Ap Biology Study Guide Answers Chapter

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Ap Biology Study Guide Answers Chapter

9. Balancing eBooks and Physical Books Ap Biology Study Guide Answers Chapter

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Ap Biology Study Guide Answers Chapter

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Ap Biology Study Guide Answers Chapter

- Setting Reading Goals Ap Biology Study Guide Answers Chapter
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Ap Biology Study Guide Answers Chapter

- Fact-Checking eBook Content of Ap Biology Study Guide Answers Chapter
- 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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