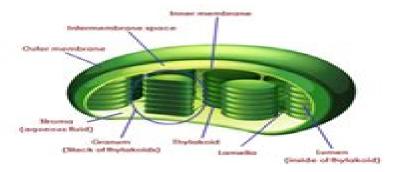
- 1. As a review, define the terms outotroph and heterotroph. Keep in mind that plants have mitochondria and chloroplasts and do both cellular respiration and photosynthesis! Autotrophs are able to sustain themselves without eating other living organisms or material derived from living organisms. Autotrophs 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.



- 3. Use both chemical symbols and words to write out the formula for photosynthesis. 6CO₂ + 6H₂O + Light Energy → C₀H₂₂O₀ + 6O₂. 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 chlorophylli 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 Colvin 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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Roger Greeno



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Table of Contents Ap Reading Guide Chapter 8

- 1. Understanding the eBook Ap Reading Guide Chapter 8
 - The Rise of Digital Reading Ap Reading Guide Chapter 8
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Ap Reading Guide Chapter 8
 - Exploring Different Genres
 - o Considering Fiction vs. Non-Fiction
 - $\circ \ \ Determining \ Your \ Reading \ Goals$
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Ap Reading Guide Chapter 8
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Ap Reading Guide Chapter 8
 - Personalized Recommendations

- Ap Reading Guide Chapter 8 User Reviews and Ratings
- Ap Reading Guide Chapter 8 and Bestseller Lists
- 5. Accessing Ap Reading Guide Chapter 8 Free and Paid eBooks
 - Ap Reading Guide Chapter 8 Public Domain eBooks
 - Ap Reading Guide Chapter 8 eBook Subscription Services
 - Ap Reading Guide Chapter 8 Budget-Friendly Options
- 6. Navigating Ap Reading Guide Chapter 8 eBook Formats
 - o ePub, PDF, MOBI, and More
 - Ap Reading Guide Chapter 8 Compatibility with Devices
 - Ap Reading Guide Chapter 8 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - o Adjustable Fonts and Text Sizes of Ap Reading Guide Chapter 8
 - Highlighting and Note-Taking Ap Reading Guide Chapter 8
 - Interactive Elements Ap Reading Guide Chapter 8
- 8. Staying Engaged with Ap Reading Guide Chapter 8
 - o Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ap Reading Guide Chapter 8
- 9. Balancing eBooks and Physical Books Ap Reading Guide Chapter 8
 - ∘ Benefits of a Digital Library
 - o Creating a Diverse Reading Collection Ap Reading Guide Chapter 8
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Ap Reading Guide Chapter 8
 - Setting Reading Goals Ap Reading Guide Chapter 8
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ap Reading Guide Chapter 8
 - Fact-Checking eBook Content of Ap Reading Guide Chapter 8

- 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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