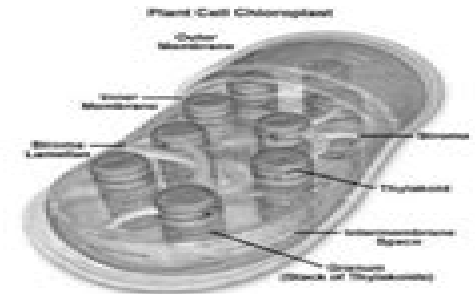


Photosynthesis: Making Energy

Chloroplasts

Photosynthesis is a process in which sunlight energy is used to make glucose. The site of photosynthesis is in the chloroplast – an organelle found in the leaves of green plants. The main functions of chloroplasts are to produce food (glucose) during photosynthesis, and to store food energy. Chloroplasts contain the pigment, chlorophyll. Chlorophyll absorbs most of the colors in the color spectrum, and reflects only green and yellow wavelengths of light. This is why we see leaves as green or yellow – because these colors are reflected into our eyes.



1. What is photosynthesis? **A process in which sunlight is converted into glucose.**
2. Where does photosynthesis occur? **Photosynthesis occurs in the chloroplast.**
3. What are chloroplasts and where are they found? **An organelle found in the leaves of green plants.**
4. What are the two main functions of chloroplasts? **The two functions of a chloroplast are to produce glucose and store food energy.**
5. Why do most leaves appear green? **The pigment chlorophyll absorbs red and blue wavelengths of light and reflects back green and yellow wavelengths of light.**
6. What is the primary pigment found in the chloroplast? **Chlorophyll is the primary pigment found in chloroplasts.**

Photosynthesis

Glucose is another name for sugar. The molecular formula for glucose is $C_6H_{12}O_6$. Plants make sugar by using the energy from sunlight to transform CO_2 from the air with water from the ground into glucose. This process, called photosynthesis occurs in the chloroplast of the plant cell. During this process, oxygen (O_2) is created as a waste product and is released into the air for us to breath. The formula for photosynthesis is:



This formula says that carbon dioxide + water molecules are combined with the energy from sunlight to produce sugar and oxygen. The reactants in photosynthesis (what is used) are CO_2 , water and sun. The plant gets water from the ground through its roots. The plant collects carbon dioxide from the air. Much of the carbon dioxide comes from living organisms that exhale (breath it out) it, but some also comes from factory smokestacks and car fumes.

7. What is the formula for photosynthesis? **$CO_2 + H_2O + \text{sunlight} \longrightarrow C_6H_{12}O_6 + O_2$**
8. What three things are used to make glucose in photosynthesis? **Carbon Dioxide, water and sunlight are three things that are used to make glucose in photosynthesis.**

Answers For Photosynthesis Making Energy

Michael Brown



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Table of Contents Answers For Photosynthesis Making Energy

1. Understanding the eBook Answers For Photosynthesis Making Energy
 - The Rise of Digital Reading Answers For Photosynthesis Making Energy
 - Advantages of eBooks Over Traditional Books
2. Identifying Answers For Photosynthesis Making Energy
 - 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 Answers For Photosynthesis Making Energy
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answers For Photosynthesis Making Energy
 - Personalized Recommendations
 - Answers For Photosynthesis Making Energy User Reviews and Ratings
 - Answers For Photosynthesis Making Energy and Bestseller Lists
5. Accessing Answers For Photosynthesis Making Energy Free and Paid eBooks
 - Answers For Photosynthesis Making Energy Public Domain eBooks
 - Answers For Photosynthesis Making Energy eBook Subscription Services
 - Answers For Photosynthesis Making Energy Budget-Friendly Options

6. Navigating Answers For Photosynthesis Making Energy eBook Formats
 - ePub, PDF, MOBI, and More
 - Answers For Photosynthesis Making Energy Compatibility with Devices
 - Answers For Photosynthesis Making Energy Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answers For Photosynthesis Making Energy
 - Highlighting and Note-Taking Answers For Photosynthesis Making Energy
 - Interactive Elements Answers For Photosynthesis Making Energy
8. Staying Engaged with Answers For Photosynthesis Making Energy
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answers For Photosynthesis Making Energy
9. Balancing eBooks and Physical Books Answers For Photosynthesis Making Energy
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answers For Photosynthesis Making Energy
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Answers For Photosynthesis Making Energy
 - Setting Reading Goals Answers For Photosynthesis Making Energy
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Answers For Photosynthesis Making Energy
 - Fact-Checking eBook Content of Answers For Photosynthesis Making Energy
 - 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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