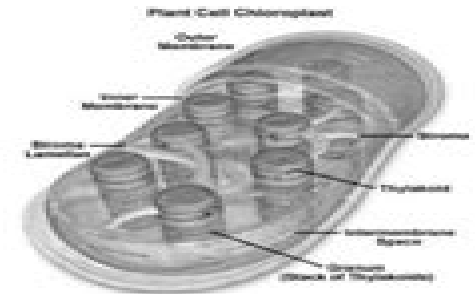


Photosynthesis: Making Energy

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

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Answers For Photosynthesis Making Energy:

Answers For Photosynthesis Making Energy: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the engaging narratives that have charmed audiences this year. The Must-Read : Colleen Hoover "It Ends with Us" This touching tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Answers For Photosynthesis Making Energy : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Answers For Photosynthesis Making Energy : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and gripping novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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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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