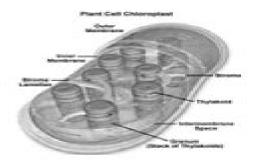
Photosynthesis: Making Energy

Chloroplasts

Photosynthesis is a process in which sunlight energy is used to make glucose. The site of photosynthesis is in the <u>chloroplast</u> – an organelle found in the leaves of green plants. The main functions of chloroplasts are to produce food (<u>glucose</u>) during <u>photosynthesis</u>, 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.



- What is photosynthesis? A process in which sunlight is converted into glucose.
- Where does photosynthesis occur? Photosynthesis occurs in the chloroplast.
- What are chloroplasts and where are they found? An organelle found in the leaves of green plants.
- What are the two main functions of chloroplasts? The two functions of a chloroplast are to produce glucose and store food energy.
- 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.
- 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, coygen (O_2) is created as a waste product and is released into the air for us to breath. The formula for photosynthesis is:

(reactants) (products)

$$CO_2 + H_2O + sunlight ---> C_6H_1/O_6 + O_2$$

This formula says that <u>carbon dioxide</u> + <u>water</u> molecules are combined with the energy from <u>sunlight</u> to produce <u>sugar</u> and <u>oxygen</u>. The reactants in photosynthesis (what is used) are CO₂, 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 furnes.

- What is the formula for photosynthesis? CO₂ + H₂O + sunlight ---> C₆H₂₂O₆ + O₂
- 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.

Photosynthesis Making Energy Packet

Michael Rajnik

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chapters chart the ways in which this carbon capture occurs or how there are a multiplicity of ways in which algae intercept sun light and deploy this energy for carbon capture A fascinating aspect here is the way in which sun light is harvested A special chapter is devoted to the very recent and exciting possibility that algae use coherent light energy transformation to enhance the efficiency of light capture an aspect of quantum physics that has implications for future developments at several levels and a variety of industries Just how and why algae use Chlorophyll a as the major light capture pigment is discussed in several chapters However attention is also given to those cyanobacteria which have been found to use the special Near Infra Red absorbing chlorophylls mentioned above And attention is also given to those algae that employ phycobiliproteins to fill in the green window i e the spectral region from 400 650 nm which is not efficiently covered by chlorophyll and carotenoid pigments Photoinhibition and photoprotection is the subject area of several chapters and one which it is essential to understand a we work towards greater efficiency of algal photosynthesis A final chapter is devoted to understanding the molecular basis for coral bleaching a much neglected area that is essential in trying to come up with solutions to this very worrying phenomenon caused by global warming and ocean acidification This is a book for research scientists environmentalists planners in a range of areas including those of marine resources nutrient control and pollution of water bodies and that growing body of concerned citizens interested in controlling carbon emissions and global warming Special attention has been given to generating a set of articles that will be read by university students informed laymen and all those whose wish to understand the rapid changes that have come about in our knowledge of algae over the past decade Growth and Change Edward P. Ortleb, Richard Cadice, Nancy McRee, 1988-09-01 Introduce your young scientists to plants with this packet The curriculum oriented worksheets were developed by leading science educator and former president of the National Science Teachers Association Ed Ortleb As students color draw match words and images or complete the other activities they will learn what plants need to grow discover everyday items that come from plants and see how plants change Extension activities and background information are also included in teacher guide section Earth: The Sequel: The Race to Reinvent Energy and Stop Global Warming Fred Krupp, Miriam Horn, 2009-03-16 Krupp longtime president of the Environmental Defense Fund joins co author Horn to reveal how to harness the forces of capitalism to save the world The Economy of Nature Robert E. Ricklefs, 2008-12-11 The classic introductory text offers a balanced from catastrophe survey of Ecology It is best known for its vivid examples from natural history comprehensive coverage of evolution and quantitative approach Due to popular demand the fifth edition update brings twenty new data analysis modules that introduce students to ecological data and quantitative methods used by ecologists Global Energy Market Trends Anco S. Blazev, 2021-01-07 As discussed in this text countries with excess energy resources export these to countries that need them This is an important function of the global energy markets where energy sources products and services are traded among countries and companies While this is the primary activity in energy markets it is only part of the entire global energy market scheme The goal of this text is to analyze all sides of the energy markets in their physical technological economic political regulatory environmental financial and legal aspects COGNITIVE PSYCHOLOGY NARAYAN CHANGDER,2023-12-10 If you need a free PDF practice set of this book for your studies feel free to reach out to me at cbsenet4u gmail com and I ll send you a copy THE COGNITIVE PSYCHOLOGY MCQ MULTIPLE CHOICE QUESTIONS SERVES AS A VALUABLE RESOURCE FOR INDIVIDUALS AIMING TO DEEPEN THEIR UNDERSTANDING OF VARIOUS COMPETITIVE EXAMS CLASS TESTS QUIZ COMPETITIONS AND SIMILAR ASSESSMENTS WITH ITS EXTENSIVE COLLECTION OF MCQS THIS BOOK EMPOWERS YOU TO ASSESS YOUR GRASP OF THE SUBJECT MATTER AND YOUR PROFICIENCY LEVEL BY ENGAGING WITH THESE MULTIPLE CHOICE QUESTIONS YOU CAN IMPROVE YOUR KNOWLEDGE OF THE SUBJECT IDENTIFY AREAS FOR IMPROVEMENT AND LAY A SOLID FOUNDATION DIVE INTO THE COGNITIVE PSYCHOLOGY MCQ TO EXPAND YOUR COGNITIVE PSYCHOLOGY KNOWLEDGE AND EXCEL IN QUIZ COMPETITIONS ACADEMIC STUDIES OR PROFESSIONAL ENDEAVORS THE ANSWERS TO THE QUESTIONS ARE PROVIDED AT THE END OF EACH PAGE MAKING IT EASY FOR PARTICIPANTS TO VERIFY THEIR ANSWERS AND PREPARE EFFECTIVELY

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