

Photosynthesis: Making Energy

Objective: _____

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?

Photosynthesis is a process in which sunlight energy is used to make glucose.

2. Where does photosynthesis occur?

Photosynthesis occurs in the chloroplasts

3. What are chloroplasts and where are they found?

Chloroplast is a organelle found in the leaves of green plants

4. What are the two main functions of chloroplasts?

two main functions of chloroplasts are to produce glucose and to store food energy

5. Why do most leaves appear green?

Most leaves appear green because the chlorophyll absorbs most of the colors in the color spectrum and reflects green and yellow wavelengths only showing green or yellow leaves

6. What is the primary pigment found in the chloroplast?

the primary pigment is chlorophyll

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 breathe. 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 (breathe it out) it, but some also comes from factory smokestacks and car fumes.

Photosynthesis Making Energy Packet Answers

Camilla Rothe



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Plant 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 **Teacher's**

Wraparound Edition: Two Biology Everyday Experience Albert Kaskel, 1994-04-19 *Acres, U.S.A.*, 1987 *Resources in Education*, 1975 **New Modular Science for GCSE** Ann Fullick, Patrick Fullick, 1998 This is the answer book to accompany the homework book **Photosynthesis** Jerome Laib Rosenberg, 1965 Mirroring Photosynthesis, 2017

Energy for Life Betty D. Allamong, Thomas Robert Mertens, 1976 **All About Photosynthesis** Monika Davies, 2024-09-16 Do you know how plants use carbon dioxide water and sunlight to make their own food Learn about photosynthesis with this STEAM reader Created in collaboration with the Smithsonian Institution this title boosts secondary students literacy skills **Photosynthesis** A. Malcolm Campbell, Christopher J. Paradise, 2016-04-21 Perhaps the most important chemical reactions on the planet take place inside a plant's chloroplasts In this tiny green organelle plants have the capacity to capture the energy in light and use that energy to convert CO₂ gas into building blocks used to produce all four categories of biological molecules lipids carbohydrates proteins and nucleic acids Animals could not survive if plants did not exist Not only do they provide us with oxygen to breathe they also generate the starting materials for everything we eat Rather than focusing on names and trivial details this book shows how plants harvest energy in a way that self regulates Plants shift how they process light energy to maximize their productivity and minimize their exposure to dehydration All of this regulation is carried out inside every plant on earth In addition to plants there are microbial primary producers that can harvest energy from a range of environmental sources so that no place on earth is devoid of life

Unveiling the Energy of Verbal Art: An Emotional Sojourn through **Photosynthesis Making Energy Packet Answers**

In a global inundated with screens and the cacophony of instant communication, the profound energy and psychological resonance of verbal art usually diminish in to obscurity, eclipsed by the regular onslaught of noise and distractions. However, nestled within the musical pages of **Photosynthesis Making Energy Packet Answers**, a charming function of fictional beauty that pulses with organic emotions, lies an memorable trip waiting to be embarked upon. Written by a virtuoso wordsmith, this enchanting opus courses viewers on a mental odyssey, delicately revealing the latent possible and profound influence stuck within the complex web of language. Within the heart-wrenching expanse of the evocative analysis, we will embark upon an introspective exploration of the book is central themes, dissect their fascinating publishing fashion, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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