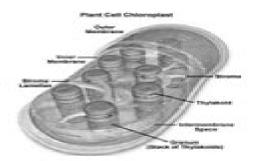
Photosynthesis: Making Energy

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 ---> C₆H₃₂O₆ + 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 Answers

BM King

Photosynthesis Making Energy Answers:

The Enigmatic Realm of **Photosynthesis Making Energy Answers**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Photosynthesis Making Energy Answers** a literary masterpiece penned with a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book is core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those who partake in its reading experience.

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