

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.**

Photosynthesis Making Energy Answer Key

Lori Oczkus, Timothy Rasinski



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