

Photosynthesis & Respiration

Photosynthesis

Photosynthesis is a process by which green plants and certain bacteria use the energy from the Sun to convert carbon dioxide and water into the simple sugar glucose ($C_6H_{12}O_6$) and oxygen. Plants and animals use glucose as a source of energy for all life processes.

The process of photosynthesis begins in the leaves where light energy is absorbed by the green pigment chlorophyll. Chlorophyll is found within a plant cell organelle called the chloroplast.

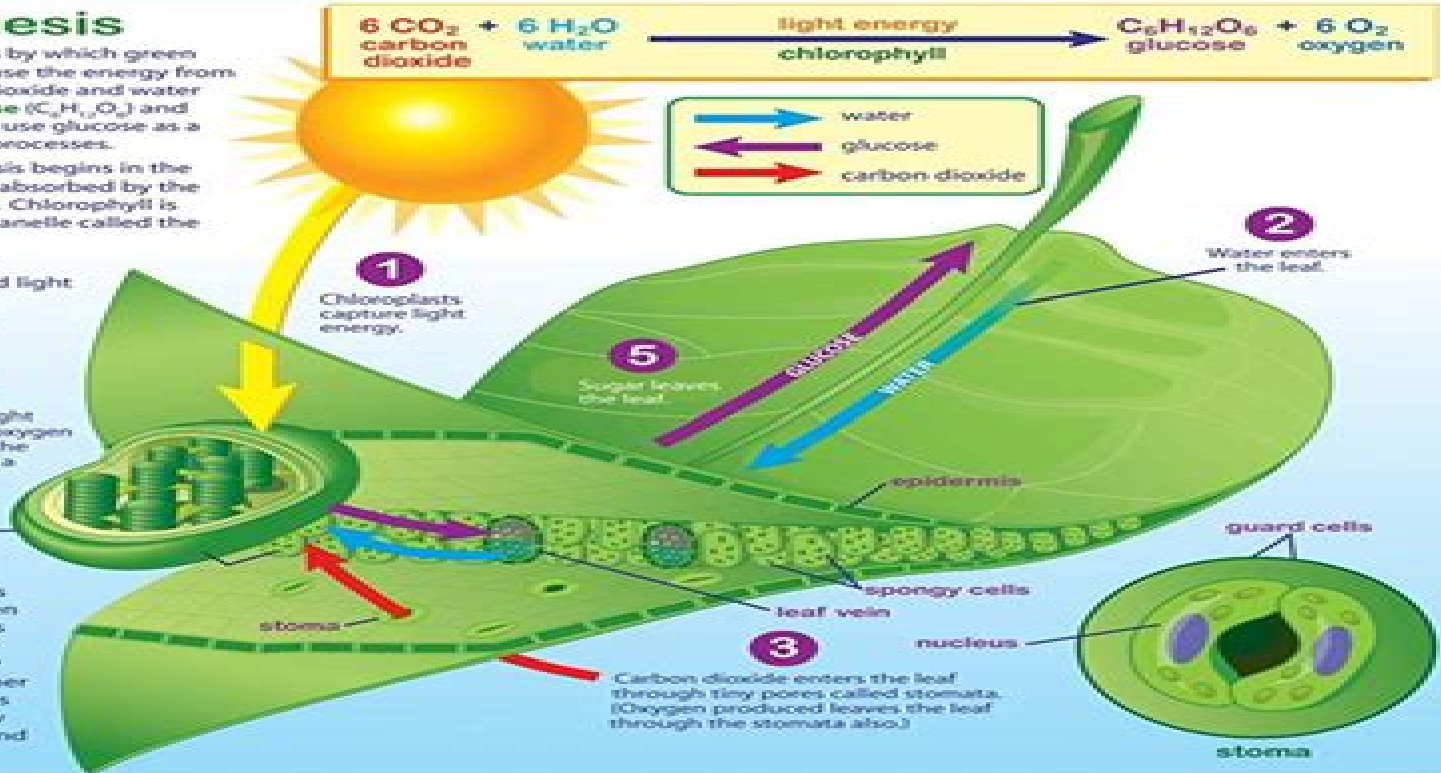
During the second stage of photosynthesis, the captured light energy is used to convert carbon dioxide and water into glucose and oxygen.

Using the captured light energy, glucose and oxygen are produced inside the chloroplasts through a complex series of chemical reactions.

chloroplast

Leaves

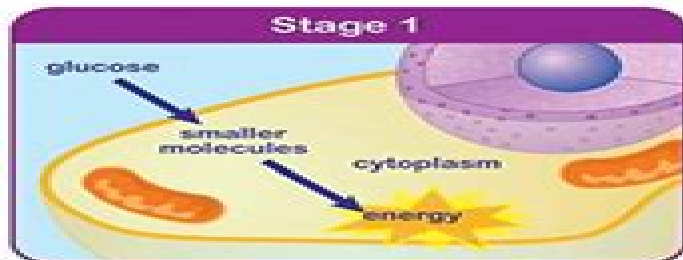
A leaf is made of many layers that are sandwiched between two layers of tough skin cells called the epidermis. These layers provide protection for the leaf from insects and other pests. Leaves have tiny pores called stomata which allow water and gases to pass in and out of the plant.



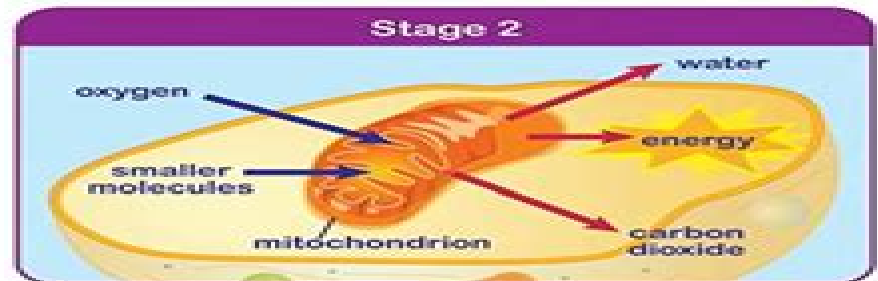
Cellular Respiration

Cellular Respiration is a process by which cells break down glucose to release stored energy.

Stage 1 of respiration begins in the cell's cytoplasm by the break-down of glucose into smaller molecules releasing a small amount of energy.



During Stage 2, the smaller molecules combine with oxygen in the mitochondria to produce a large amount of energy along with carbon dioxide and water.



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Science Takeout Photosynthesis And Respiration

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