

A decorative illustration in the top-left corner featuring a green vine with leaves and three flowers: two purple ones and one pink one, all with yellow centers.

Photosynthesis

A decorative illustration of a single pink flower with a yellow center, located to the left of the section header.

What is Photosynthesis?

The process that plants and other organisms use to convert sunlight energy into chemical energy or sugars to be used as foods.



What is Photosynthesis?

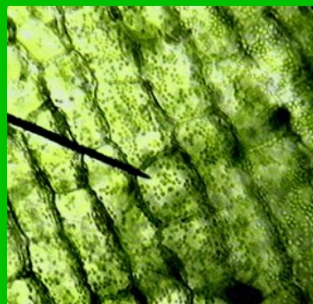
The process of photosynthesis is a chemical reaction.

It is the most important chemical reaction on our planet.



How does it work?

Chlorophyll (the green pigment in plants) is used in photosynthesis to capture sunlight which is used to produce sugar and oxygen.



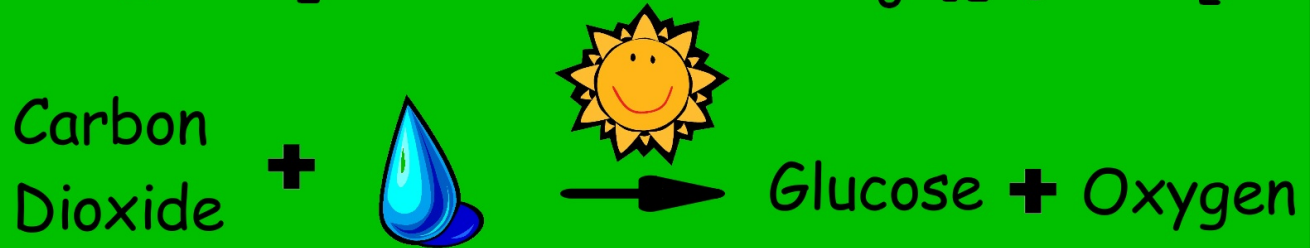
What happens during Photosynthesis?

- Plants capture light energy and use that energy to make glucose
- Sunlight provides the energy needed by chlorophyll to change molecules of carbon dioxide and water into glucose.
- Oxygen is also released in this reaction.

Why is this important to us?

- We cannot make our own food (glucose, energy), we must get our food from plants.
- Plants are one of the first links in the food chain.
- The oxygen released during photosynthesis is necessary for all living things.
- As a matter of fact, as much as 90% of the oxygen in our atmosphere is the result of photosynthesis.

What is the equation for the chemical reaction of photosynthesis?



Reactants or Products?



R

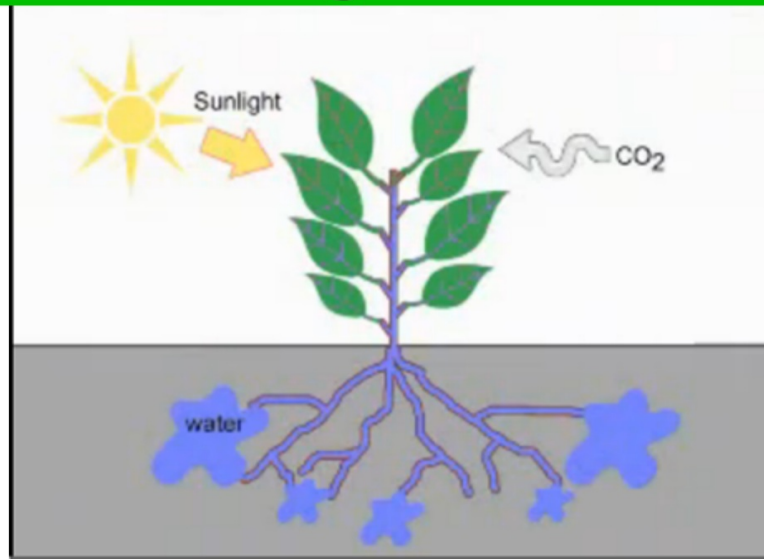
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The Photosynthesis Song!



Answer for # 8 = B...this is why:

because the plant makes
and stores glucose after
going through photosynthesis.