

# Photosynthesis



When you get hungry, you might decide to raid the cookie jar or ask your mom to make you a sandwich. You do this because humans and animals get energy from the foods they eat.

Plants use light energy from the sun to produce the food they need to survive. This process is called photosynthesis.

## INGREDIENTS

Light energy  
Rays from the sun



Carbon dioxide  
From the air



Water  
Gathered by plant's roots in the soil

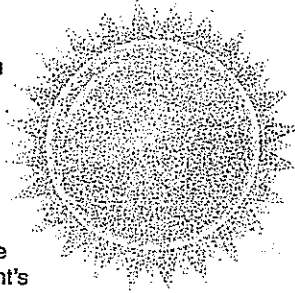


Chlorophyll  
Present in cells of green plants



## SUNLIGHT

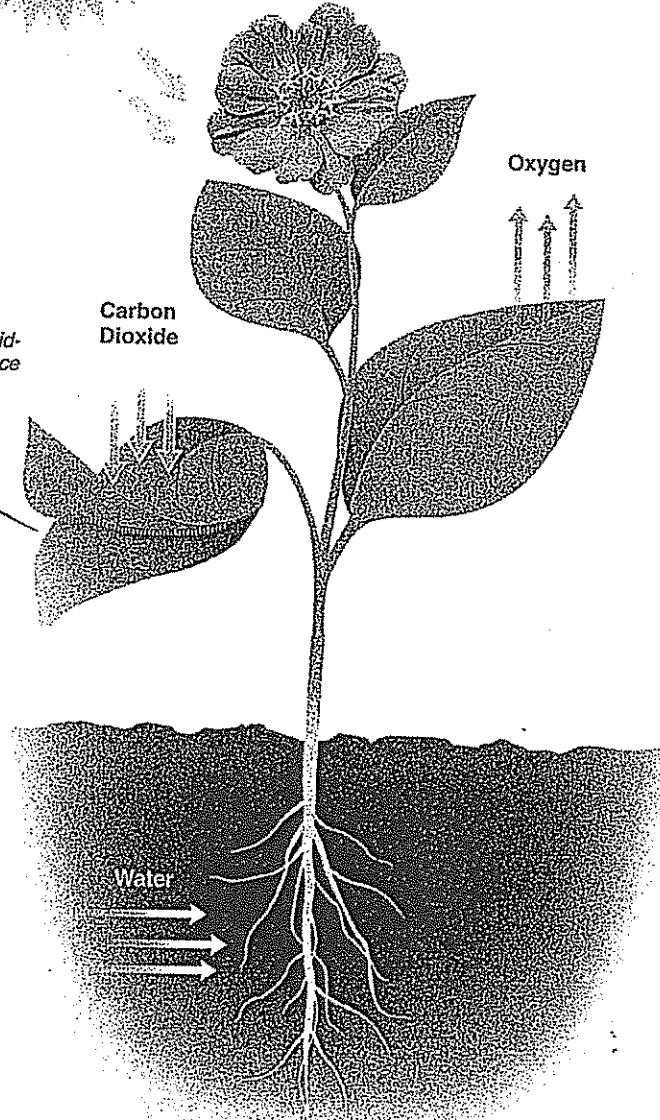
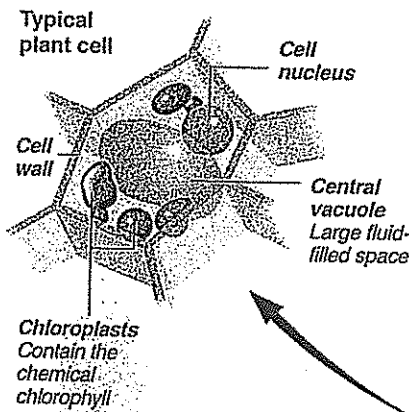
Light shining down from the sun is absorbed by the plant's cells. These tiny cells are what make up the plant and its leaves.



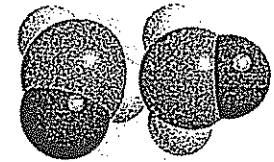
Sunlight

## END RESULT

The sugar created by photosynthesis is sent to the rest of the plant for food.

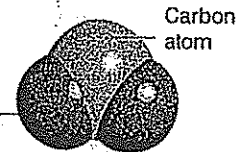


FOOD!



=

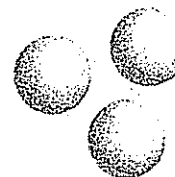
Carbon dioxide molecules



Oxygen atoms

+

Hydrogen atoms

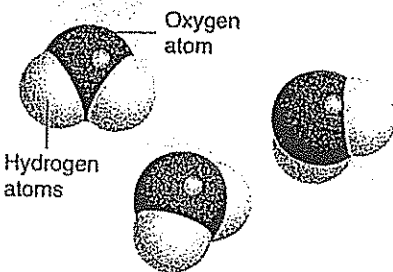


Then, the hydrogen atoms combine with carbon dioxide to make a sugar the plant can use as its food.

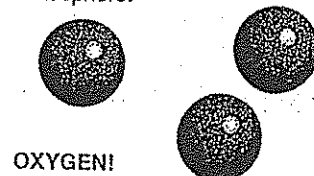
## WATER

Water and carbon dioxide are two of the main ingredients needed for photosynthesis. These two substances are made of many smaller parts called molecules.

Water molecules



Photosynthesis causes the water molecules to split, separating the hydrogen and oxygen atoms. The oxygen is released into the atmosphere.



OXYGEN!