

# Photosynthesis



Photosynthesis is the mechanism through which plants convert light energy into chemical energy, utilizing it to produce their own sustenance. The absorbed light energy is employed to convert carbon dioxide, water, and minerals into oxygen.

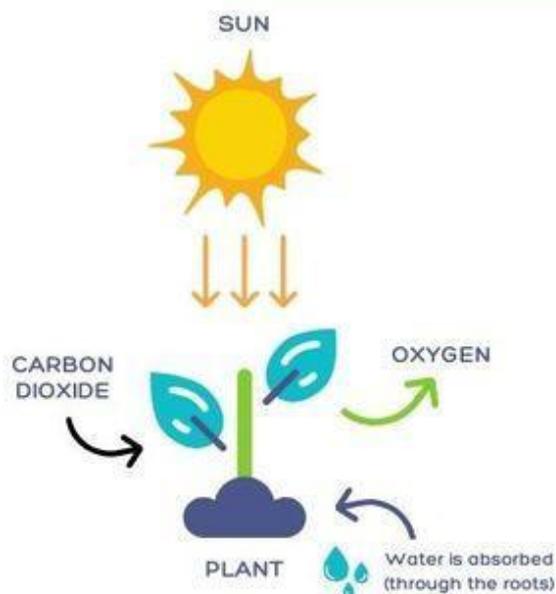
## Chlorophyll

The pigment responsible for the green hue in plants and aiding in the photosynthesis process.

## Did you know?

There are organisms besides plants capable of undergoing photosynthesis, such as algae and the emerald green sea slug.

## The Photosynthesis Process



Plants absorb water and carbon dioxide, utilizing sunlight energy to transform them into nourishment.

Inside the plant cell, water undergoes oxidation, losing electrons and converting into oxygen.

Simultaneously, carbon dioxide undergoes reduction, gaining electrons and transforming into glucose.

Oxygen is then released, and the plant stores glucose as energy.

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