

Photosynthesis

The equation for **photosynthesis** is $6\text{CO}_2 + 6\text{H}_2\text{O} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$

Photosynthesis is the process where plants transform **light energy** into **chemical energy**. Plants use this energy to make their own food. The light energy they captured is used to convert **carbon dioxide**, water and minerals into oxygen.

Chlorophyll → The pigment that gives the plants their green colour and helps in the process of photosynthesis by **absorbing** the light.

Chloroplasts → The plant cell **structure** where photosynthesis occurs. They are found in the palisade cells in the leaves.

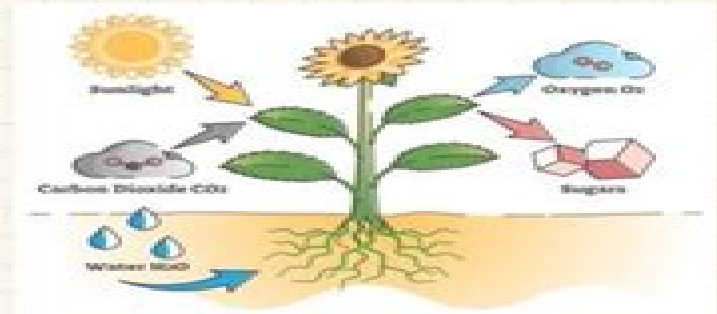
Xylem → The **plant vascular tissue** that moves water and dissolved minerals **upwards** towards the rest of the plant and also provides physical support. The water-conducting function is essential for photosynthesis.

The photosynthesis process

- Plants take in water and carbon dioxide and use energy from the sun to turn them into food.
- Within the plant cell, water is oxidised, loses **electrons** and is changed into **oxygen**. Carbon dioxide is reduced, gains electrons and turns into glucose.
- Oxygen is released, and **glucose** is stored within the plant as energy.

Photosynthesis is an **endothermic reaction**. This means it cannot occur without energy (from the Sun).

To perform photosynthesis you must have a source of light, water and CO_2



Fun fact:

There are **organisms** other than plants that can go through photosynthesis. These include algae and the emerald green sea slug.

Biology Review Photosynthesis Quick Review Notes

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Biology Review Photosynthesis Quick Review Notes:

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