



The Process of PHOTOSYNTHESIS

How Plants Make Their Food

1 SUNLIGHT ABSORPTION

Plants absorb sunlight using chlorophyll, the green pigment in their leaves.

2 CARBON DIOXIDE INTAKE

Plants take in carbon dioxide (CO_2) from the air through tiny openings in the leaves called stomata.

3 WATER UPTAKE

Roots absorb water (H_2O) from the soil and transport it up through the plant.

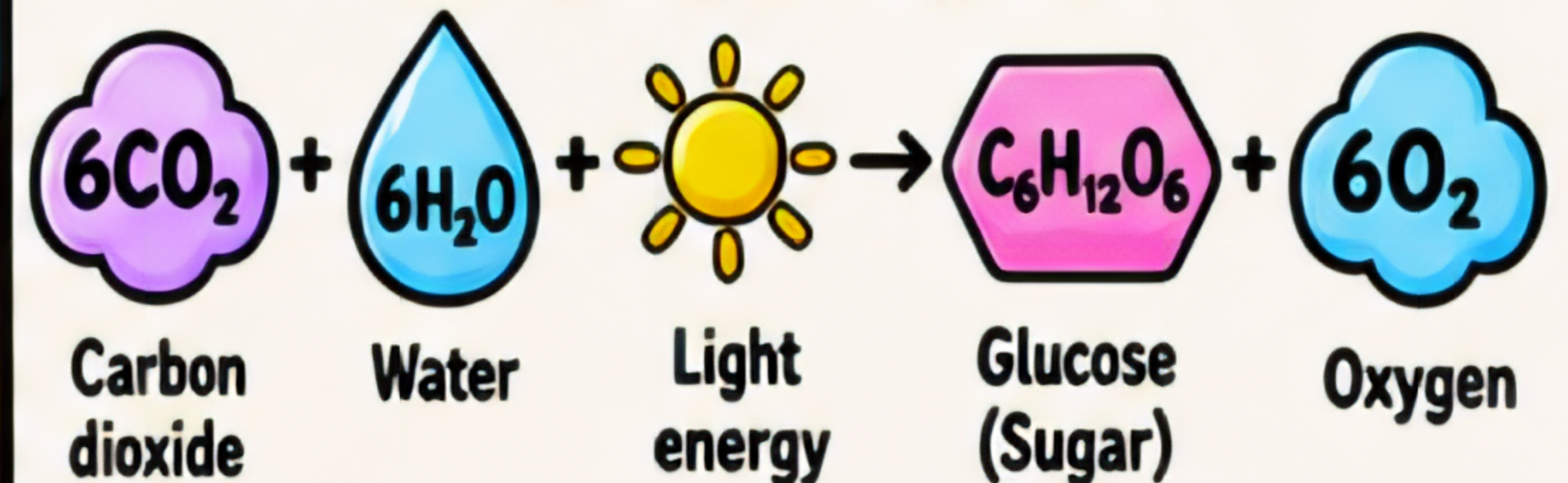
5 OXYGEN RELEASE

As a byproduct, plants release oxygen (O_2) back into the air, which we breathe.

4 SUGAR PRODUCTION

Inside the leaf cells, sunlight energy is used to convert carbon dioxide and water into glucose (sugar). This sugar provides energy for the plant.

THE OVERALL EQUATION



With light energy, plants turn carbon dioxide and water into glucose and oxygen.