

**Photosynthesis:** the process that makes most of the oxygen in our atmosphere and food for plants to eat.

- The chemical reaction a plant carries out in order to produce energy from sunlight.
- The green pigment in plants, chlorophyll found in the chloroplasts in the leaves, uses the sun's energy to convert carbon dioxide and water into energy in the form of glucose, a sugar molecule. It is then stored as chemical energy in roots and seeds.
- The carbon dioxide and oxygen that plants breathe in and out is through tiny opening in the leaves called stomata.
- Photosynthesis releases oxygen as the waste product.

# Chemical Equation for Photosynthesis



– Ingredients (Inputs)

– Products  
(Outputs)

The Large Numbers are the Molecules (a group of atoms bonded together).

The Small Numbers are the Atoms