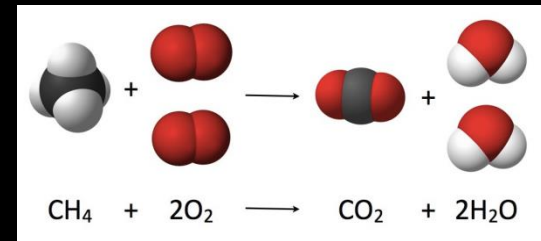


OXYGEN REACTIONS



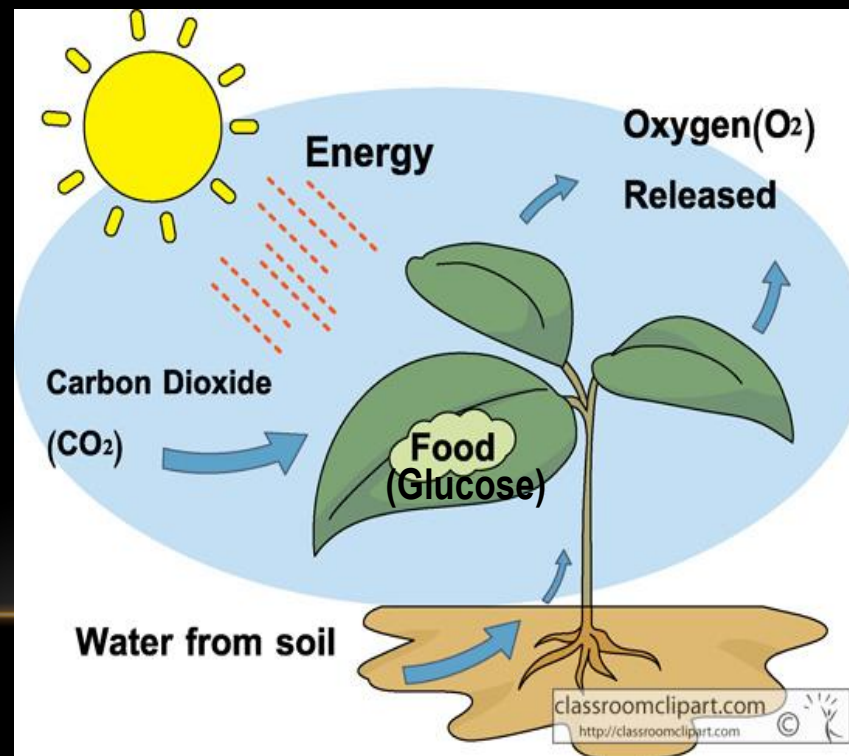
COMBUSTION (BURNING)

- a reaction in which oxygen reacts with a hydrocarbon to produce energy in the form of heat and light.
- Examples:
 - Natural gas in furnaces and stoves
 - Wood burning for a fire
 - Candles



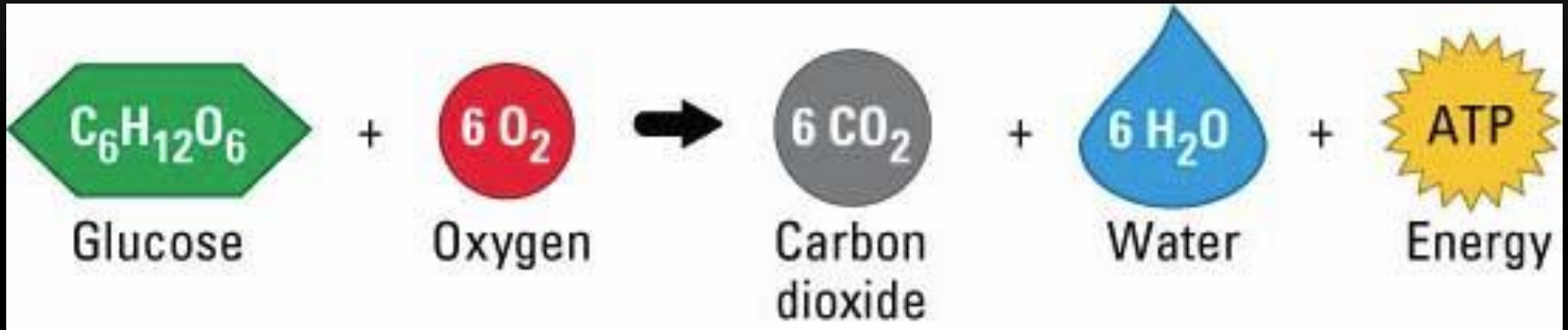
PHOTOSYNTHESIS

- The process that uses light energy (sunlight), carbon dioxide and water to make glucose (sugar) and oxygen.

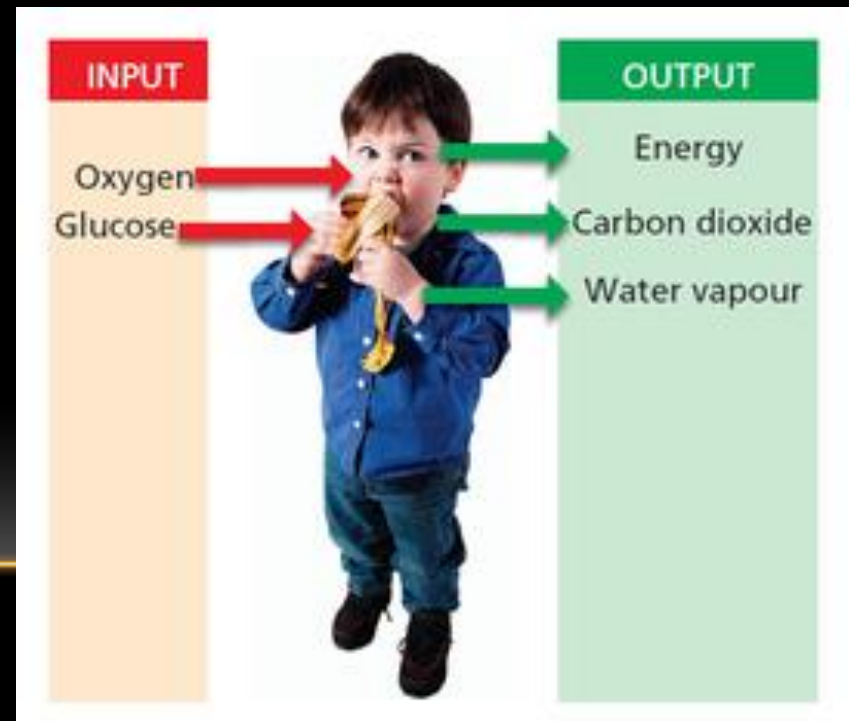


CELLULAR RESPIRATION

- Process that breaks down glucose with oxygen to produce carbon dioxide and water.



- Occurs in the cells every living thing!
- PLANTS and ANIMALS!



Cellular Respiration



glucose/food

(Even if we eat meat, all food chains begin with a green plant, which has glucose.)



oxygen

water
(breathe out water vapor;
lose water through perspiration)

CO₂
(breathe out)

energy



Cellular Respiration takes place in the cell.

RUST

- Rust is an iron oxide, formed by the reaction of IRON and OXYGEN in the presence of water.
- $4 \text{ Fe (s)} + 3 \text{ O}_2 \text{ (g)} \Rightarrow 2 \text{ Fe}_2\text{O}_3 \text{ (s)}$

