PHOTOSYNTHESIS SORT MAT

Reactants

$6\text{CO}_2 + 6\text{H}_2\text{O} + \text{energy} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$

Products

PHOTOSYNTHESIS SORT PIECES

- **OXYGEN** $(O_2)$
- absorbed by chlorophyll in leaves
- **LIGHT FROM THE SUN**
- it enters through the roots
- sugar stored in roots/trunk as starch
- it enters through the stomata in leaves
- **WATER** $(H_2O)$
- CARBON DIOXIDE $(CO_2)$
- allows for respiration or leaves through the stomata
- **SUGAR OR GLUCOSE** (FOOD)
PHOTOSYNTHESIS SORT MAT

**Reactants**
- CARBON DIOXIDE (C\(_2\)O\(_2\))
- WATER (H\(_2\)O)
- LIGHT FROM THE SUN

**Products**
- SUGAR OR GLUCOSE (FOOD)
- OXYGEN (O\(_2\))

\[6\text{CO}_2 + 6\text{H}_2\text{O} + \text{energy} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + \text{6O}_2\]

- it enters through the stomata in leaves
- it enters through the roots
- absorbed by chlorophyll in leaves
- sugar stored in roots/trunk as starch
- allows for respiration or leaves through the stomata
C₆H₁₂O₆ + 6O₂ → 6CO₂ + 6H₂O + energy
RESPIRATION SORT PIECES

- **SUGAR OR GLUCOSE (FOOD)**
  - sugar is consumed by eating plants which make it during photosynthesis

- **WATER (H₂O)**
  - taken into the body during respiration. Plants make it during photosynthesis

- **OXYGEN (O₂)**
  - oxygen powers the cell’s daily activities

- **CARBON DIOXIDE (CO₂)**
  - released as sweat/urine in animals. Or reused by plants

- **Energy in the form of ATP (Adenosine Triphosphate)**
  - exhaled as waste
SUGAR OR GLUCOSE (FOOD) ➞ OXYGEN ($O_2$)

C$_6$H$_{12}$O$_6$ + 6$O_2$ ➞ 6CO$_2$ + 6H$_2$O + energy

Sugar is consumed by eating plants which make it during photosynthesis.

Taken into the body during respiration. Plants make it during photosynthesis.

Released as sweat/urine in animals. Or reused by plants.

Exhaled as waste.

Powers the cell’s daily activities.

Energy in the form of ATP Adenosine Triphosphate.