PHOTOSYNTHESIS SORT MAT

Reactants → Products

$6CO_2 + 6H_2O + energy \rightarrow C_6H_{12}O_6 + 6O_2$

PHOTOSYNTHESIS SORT PIECES

OXYGEN (0_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 DIXOIDE ($C0_2$)

allows for respiration or leaves through the stomata

SUGAR OR GLUCOSE (FOOD)

Key

PHOTOSYNTHESIS SORT MAT

Reactants → Products

CARBON DIXOIDE (CO_2)	WATER (H_2O)	LIGHT FROM THE SUN	SUGAR OR GLUCOSE (FOOD)	OXYGEN (O_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

$$6CO_2 + 6H_2O + \text{energy} \rightarrow C_6H_{12}O_6 + 6O_2$$

RESPIRATION SORT MAT

Reactants → **Products**

$$C_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2 + 6H_2O + \text{energy}$$

RESPIRATION SORT PIECES

SUGAR OR GLUCOSE (FOOD)

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

OXYGEN (O_2)

powers the cell's daily activities

sugar is consumed by eating plants which make it during photosynthesis

WATER (H_2O)

CARBON DIXOIDE (CO_2)

Energy in the form of ATP Adenosine Triphosphate

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

exhaled as waste

Key

RESPIRATION SORT MAT

Reactants → Products

Reactants		Products		
SUGAR OR GLUCOSE (FOOD)	OXYGEN (O_2)	WATER (H_2O)	CARBON DIXOIDE (CO_2)	Energy in the form of ATP Adenosine Triphosphate
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

$$C_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2 + 6H_2O + \text{energy}$$