

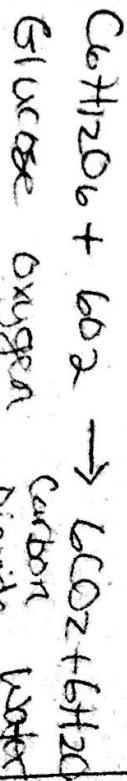
Photosynthesis

$6\text{CO}_2 + 6\text{H}_2\text{O} \xrightarrow{\text{Sunlight}} \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$	Chemical Equation & what each stands for $\text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2 \rightarrow 6\text{CO}_2 + 6\text{H}_2\text{O}$ Glucose Oxygen Carbon Water Dioxide
Photosynthesis	Names of cycles/Reaction Cellular Respiration (aerobic)
Chief source of energy on earth	Function (purpose) Converts glucose into energy that we can use & releases energy to cells
Chloroplast	Organelles where process occurs Mitochondria
Carbon Dioxide and Water	Reactants Glucose and Oxygen
Glucose and Oxygen	Products Carbon Dioxide and Water
Plant cells only (Eukaryotic)	Cells where process occurs Animal & Plant Cells (Eukaryotic)

Similarities:

- Plant cells can do both processes
- Both involve the same compounds
- Both are part of energy use/production -

Cellular Respiration



Chemical
Equation & what
each stands for

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Glucose Oxygen Carbon Water Dioxide

Names of cycles/Reaction
Cellular Respiration (aerobic)

Function (purpose)
Converts glucose into energy that we can use & releases energy to cells

Mitochondria

Glucose and Oxygen

Products
Carbon Dioxide and Water

Reactants
Glucose and Water

Organelles where process occurs
Mitochondria

Similarities: