

# Photosynthesis

# Cellular Respiration

$6CO_2 + 6H_2O \xrightarrow{\text{Sunlight}} C_6H_{12}O_6 + 6O_2$	Chemical Equation & what each stands for	$C_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2 + 6H_2O$
Carbon Dioxide		Glucose
Water		Oxygen
Glucose	Names of Cycles/Reaction	Cellular Respiration (Aerobic)
Oxygen	Function (purpose)	Converts glucose into energy that we can use & releases energy to cells
	Organelles where process occurs	Mitochondria
	Reactants	Glucose and Oxygen
Carbon Dioxide and Water	Products	Carbon Dioxide and Water
Glucose and Oxygen	Cells where process occurs	Animal & Plant cells (Eukaryotic)
Plant cells only (Eukaryotic)		

**Similarities:**

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