**Vocabulary:** **Plants and Snails**



**Vocabulary**

* Aerobic respiration – a chemical process in which oxygen is used to produce energy from glucose (a sugar).
	+ The chemical equation for aerobic respiration is:

C6H12O6 + O2 🡪 CO2 + H2O + energy

This reads: Glucose and oxygen react to produce carbon dioxide, water, and energy.

* + Aerobic respiration occurs in plants and animals.
* Bromothymol blue (BTB) – a chemical that changes color to indicate if oxygen or carbon dioxide is present in water.
	+ When oxygen is present, BTB turns from green to blue.
	+ When carbon dioxide is present, BTB turns from green to yellow.
* Carbon dioxide-oxygen cycle – the exchange of carbon dioxide and oxygen between plants and animals.
	+ During *photosynthesis*, plants take in carbon dioxide and water, producing oxygen and glucose.
	+ During respiration, animals (and plants) take in oxygen and glucose to produce carbon dioxide and water.
* Indicator – a chemical that can show if another substance is present, usually by changing color.
* Interdependence – a relationship between living things in which both make something that the other one needs.
* Photosynthesis – a process in which plants use energy from light to produce glucose and oxygen from carbon dioxide and water.
	+ The chemical equation for photosynthesis is:

CO2 + H2O + light 🡪 C6H12O6 + O2

This reads: With light, carbon dioxide and water react to produce glucose and oxygen.

* + Photosynthesis occurs in plants but not in animals.