

Bioenergetics year 8

End point 1: Use a word equation to describe photosynthesis

Animals need to eat food to get their energy. But green plants and algae do not. Instead they make their own food in a process called photosynthesis. Almost all life on Earth depends upon this process. Photosynthesis is also important in maintaining the levels of oxygen and carbon dioxide in the atmosphere.

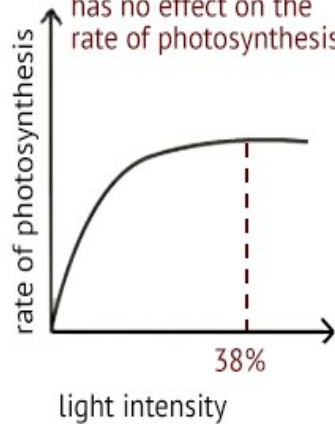
Photosynthesis



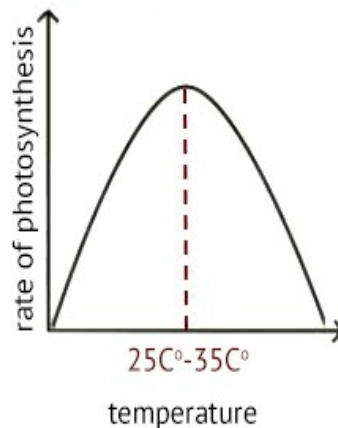
carbon dioxide + water \longrightarrow glucose + oxygen

End point 2: Describe 3 factors that affect the rate of photosynthesis

Low light conditions decreases rate; increasing the light intensity past the optimum light intensity has no effect on the rate of photosynthesis



Increasing or decreasing the optimum temperature results in lower rates of photosynthesis



Low carbon dioxide conditions decrease rate; increasing the concentration above the optimum has no effect on the rate of photosynthesis

