

PHOTOSYNTHESIS

Photosynthesis	- the process where some organisms are able to turn light energy into chemical energy
Organisms that use photosynthesis	- producers
reaction of photosynthesis	- endothermic reaction
Where does it take place?	- in chloroplasts
word equation	- Carbon Dioxide + water --> Glucose + Oxygen
Symbol equation	- $6\text{CO}_2 + 6\text{H}_2\text{O} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$
Effect of temperature on rate of photosynthesis	- As temperature increases, the rate of photosynthesis. Once temperature exceeds the optimum, the rate of photosynthesis decreases as enzymes start to denature
Effect of light intensity on rate of photosynthesis	- as light intensity increases, so does rate of photosynthesis (Inverse square law: as distance from light source doubles, light intensity quarters)
Effect of CO ₂ concentration on rate of photosynthesis	- as CO ₂ concentration increases, so does rate of photosynthesis
LIMITING FACTOR	- a factor that limits the rate of a reaction when there is not enough of it.

PLANTS

Ways leaves are adapted for photosynthesis	- thin which provides a short diffusion distance -spongy mesophyll layer has air pockets for efficient gas exchange -Palisade mesophyll layer has many chloroplasts for photosynthesis
what are mineral ions used for in plants?	- growth
two common ions in plants	- magnesium (Mg^{2+}) and Nitrate (NO_3^-)
why magnesium is used	- used in chlorophyll
why nitrate is used	- used in amino acids



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Page 1 of 1.

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