

GCSE BIOLOGY: Nutrition Cheat Sheet

by Particle (ParticleMoon) via cheatography.com/162486/cs/34019/

PHOTOSYNTHESIS Photosynt-- the process where some hesis organisms are able to turn light energy into chemical energy Organisms - producers that use photosynthesis - endothermic reaction reaction of photosynthesis Where - in chloroplasts does it take place? word - Carbon Dioxide + water --> Glucose + Oxygen equation Symbol - 6CO2 + 6H2O --> C6H1206 +602 equation Effect of - As temperature increases, the rate of photosynthesis. temperature on Once temperature exceeds the optimum, the rate of rate of photosyntphotosynthesis decreases as hesis enzymes start to denature Effect of - as light intensity increases, light so does rate of photosyntintensity hesis (Inverse square law: as on rate of distance from light source photosyntdoubles, light intensity hesis quarters) - as CO2 concentration Effect of CO₂ increases, so does rate of concenphotosynthesis tration on rate of photosynthesis LIMITING - a factor that limits the rate of **FACTOR** a reaction when there is not

PLANTS	
Ways leaves are adapted for photosynt- hesis	- thin which provides a short diffusion distance -spongey mesophyll layer has air pockets for efficient gas exchange -Palisade mesophyll layer has many chloroplasts for photosynt- hesis
what are mineral ions used for in plants?	- growth
two common ions in plants	- magnesium (Mg2+) and Nitrate (NO3-)
why magnesium is used	- used in chlorphyll
why nitrate is used	- used in amino acids



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enough of it.