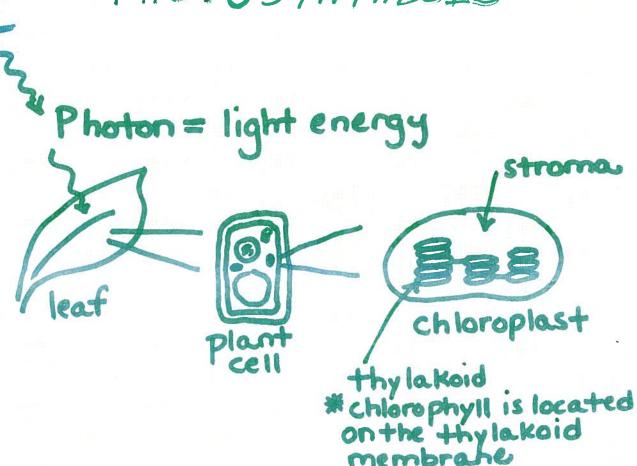
PHOTOSYNTHESIS



STAGE 1: LIGHT REACTIONS

- · occurs at the thy lakoid
- · Light energy (photons) strike chlorophyll and reactions occur to make some ATP that will be used to fuel the dark reactions
- Hydrogen (H) is broke off water molecules and oxygen (Oz) is released

STAGE 2: DARK REACTIONS (CALVIN CYCLE)

- · occurs in the stroma of the chloroplast
- * Uses ATP from the light reactions AND Carbon dioxide (CO2) to Create glucose (C6 H12 O6)

(energy)

- * USES: Light and water (H20) in the LIGHT REACTIONS
- * USES: Carbon dioxide (CO2) in the DARK REACTIONS
- MAKES: Oxygen (O2) in the LIGHT Some ATP REACTIONS
- MAKES: Glucose (C6H12O6) in the DARK REACTIONS

Light +6 H20 +6CO2 -602 + C6 H1206

CYtoplasm LELL RESPIRATION glucose glucose 'C6 H1206 Glycolysis: C-C-C-C-C-C 1 molécule of quecose is broke pyruvate pyruvate into 2 pyruvate molecules. 2 ATP C-C-C C-C-C molecules are made when this bond is broken. Each pyruvate then enters the mitochondria IF oxygen is present 2 Kreb's cycle: uses the pyruvate to generate carbon dioxide CO2 and 2 ATP 3 Electron transport Chain uses hydrogen jons and oxygen to make water H20 and Mitochondria