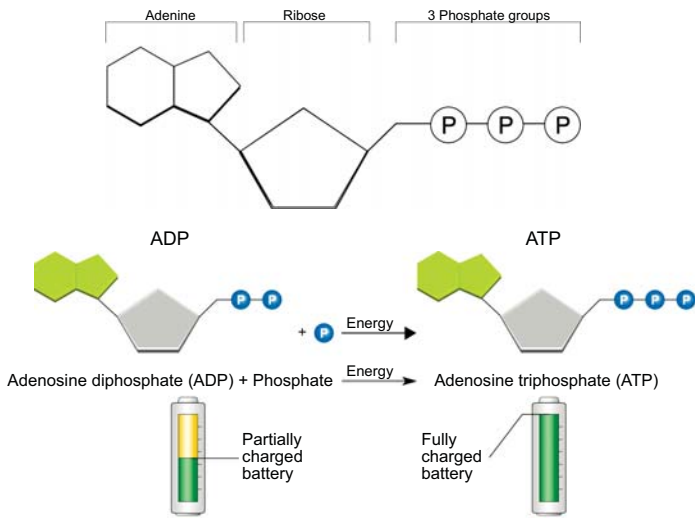
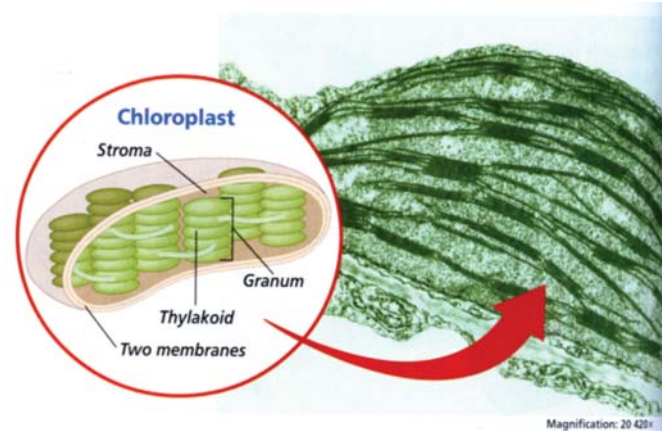


ATP - Adenosine Triphosphate

Cell Power!

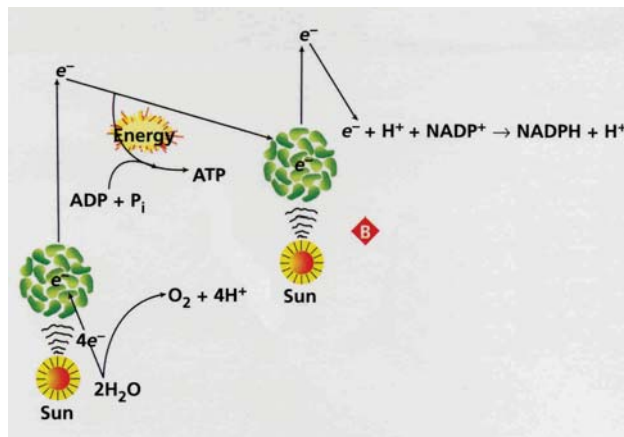


Photosynthesis



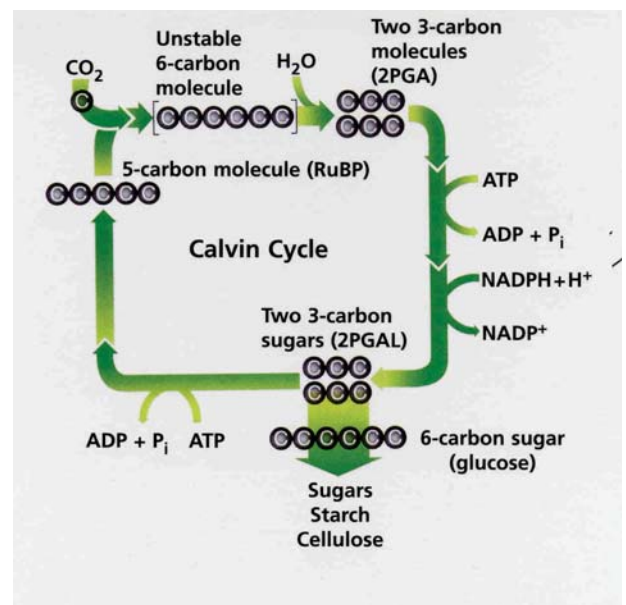
In Thylakoids
Light Reaction

H_2O is split by Light into H_2 and O_2
 H^+ is captured by NADP^+



In Stroma
Dark Reaction
Or Calvin Cycle

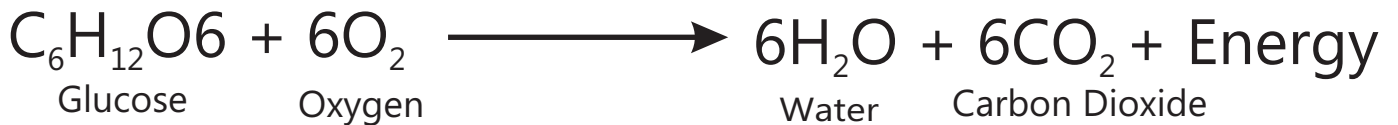
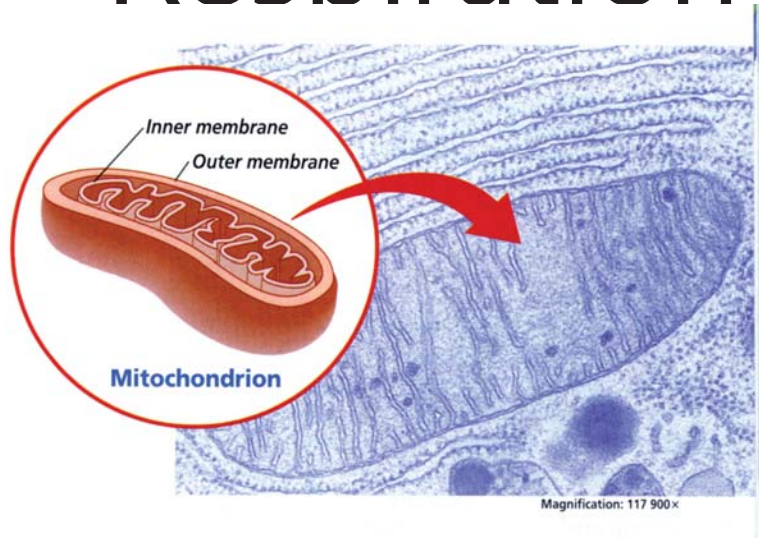
CO_2 and the captured H^+ are combined with the help of enzymes to make Sugar $\text{C}_6\text{H}_{12}\text{O}_6$



Also, energy units called ATP are created for future use.

The energy units of ATP are used up to do this. They become less energetic ADP

Respiration

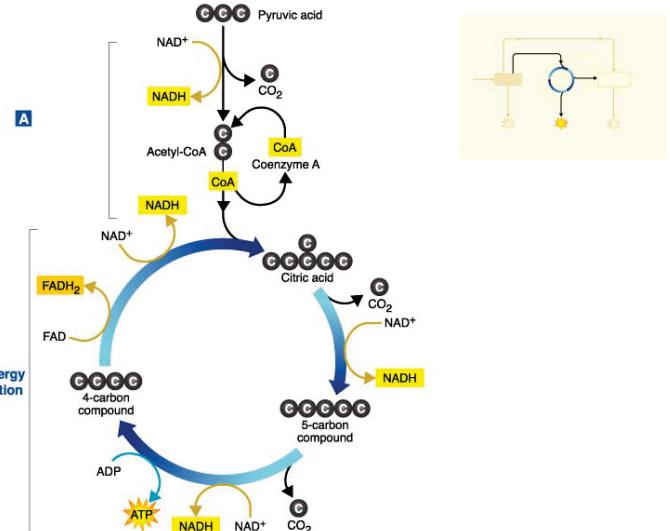
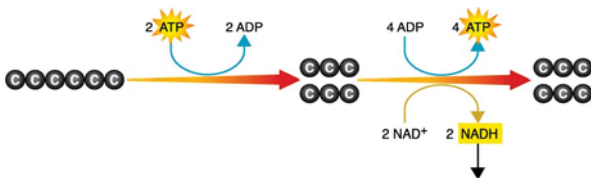


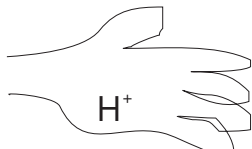
In Cytoplasm:
 Anaerobic - No Oxygen
Glycolysis

In Mitochondria
 Krebs's Cycle
 Or Citric Acid Cycle

Splits Glucose Into
 2 Pyruvic Acids

2 Molecules from glycolysis
 are broke down into CO₂



H⁺ that
 come off are
 caught by 

2 Energy Units called ATP
 Are Created

Electron Transport takes
 Place. H⁺ that have been
 caught are funneled
 into transport chain on
 inner membrane and
 H₂O is created
 34 Units of ATP are created