

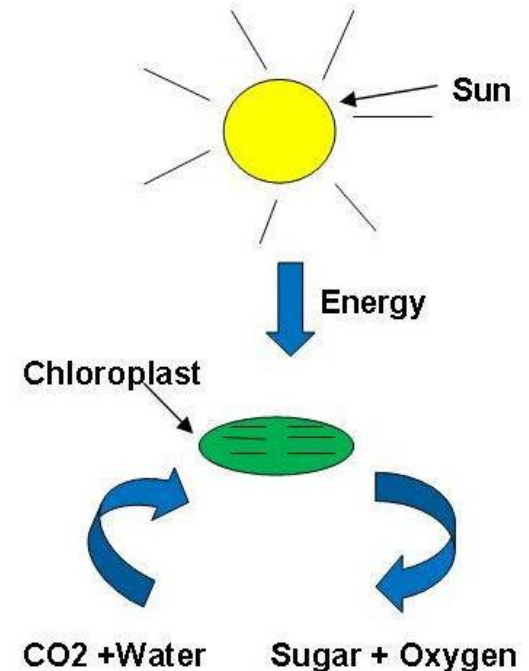
Photosynthesis

By Makhi Richburg, Miranda Abazoski, and Chloe Epstein

Process and Function

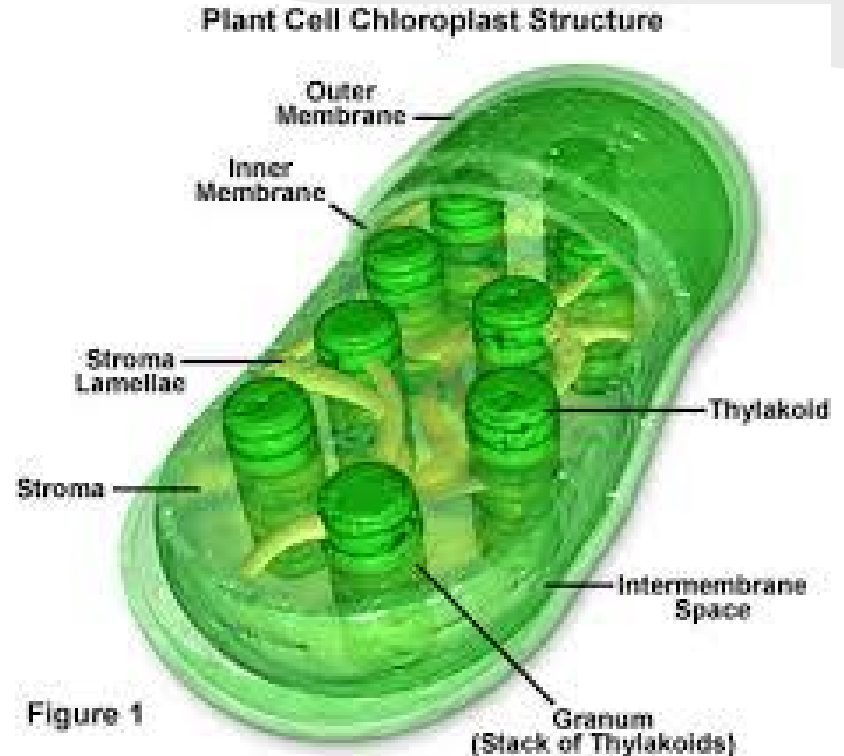
- Photosynthesis converts light energy from sun into chemical energy to make carbohydrates like sugar.
- To make sugar, plants requires sunlight, CO₂, and H₂O.
- Sunlight makes contact with H₂O. The reaction is oxygen splits from the H₂O and releases from the plant.

What is Photosynthesis?



Organelle Structure- chloroplast

- Conducts photosynthesis- produces food for the cell
- chlorophyll pigment captures energy from the sunlight
- Stores the energy into the molecules ATP and NADPH



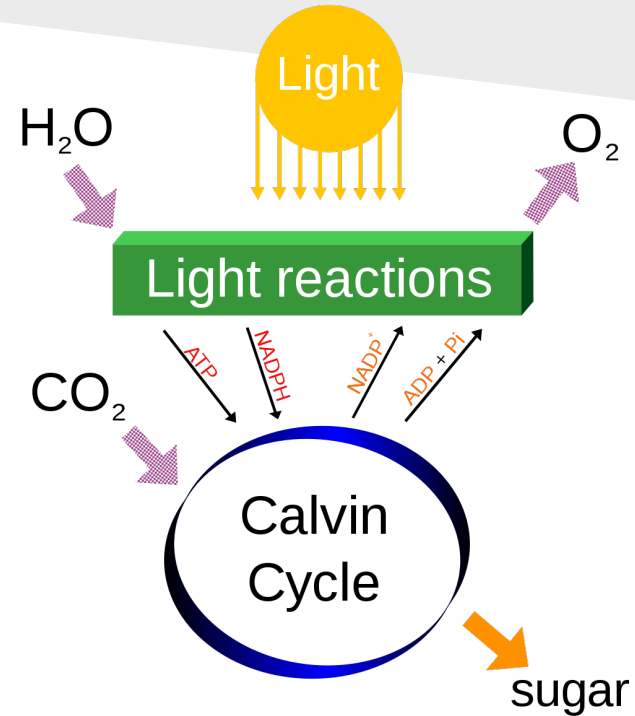
Energy Transfer

Stage 1 of Photosynthesis

- Light energy is used as ATP and NADPH
- Electrons pass through an electron transport chain
- Pigment molecules take energy

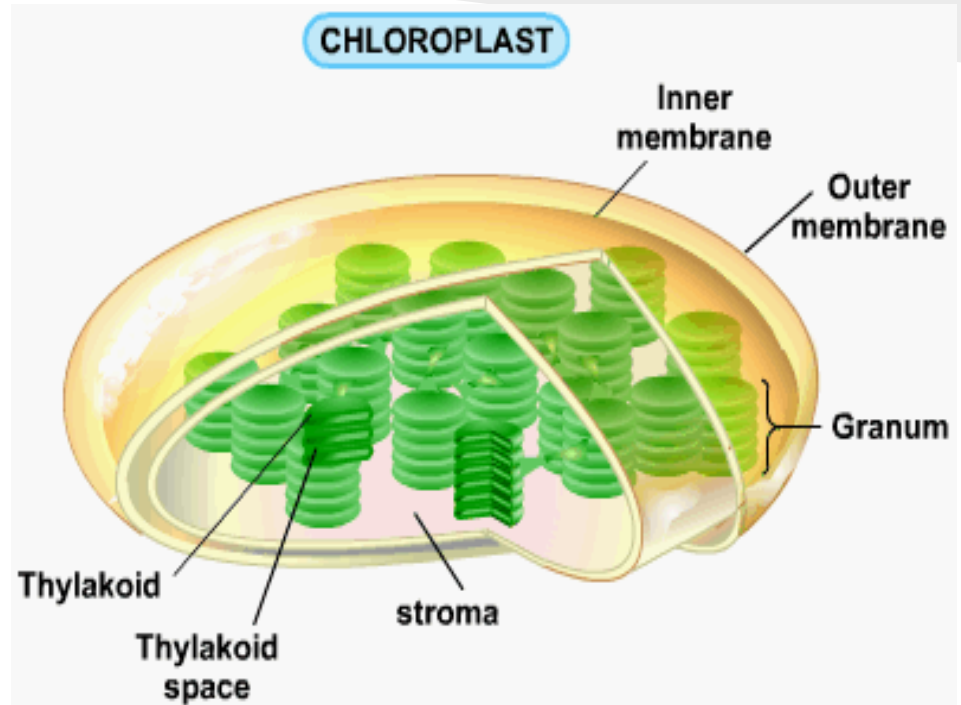
Stage 2 of photosynthesis

- Organic compounds are made using carbon dioxide
- Calvin Cycle happens
- Sugar is produced

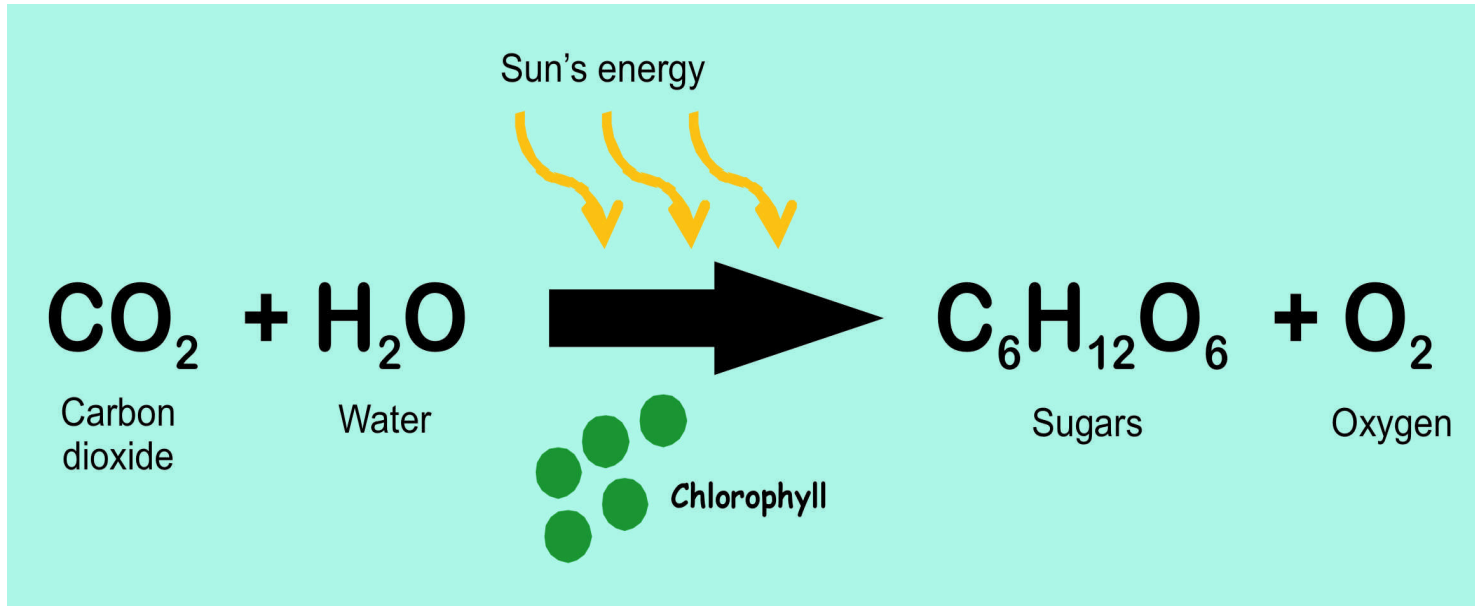
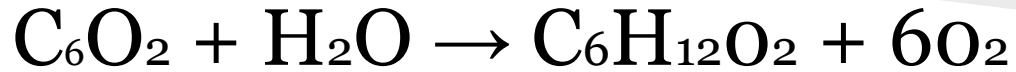


Vocabulary

- Inner Membrane
- Outer Membrane
- Granum
- Stroma
- Thylakoid Space
- Thylakoid



Equation



Diagram

- Water enters roots of Chlorophyll
- Energy/ heat comes in
- Carbon dioxide enters
- oxygen comes out
- Glucose (sugar) is produced

