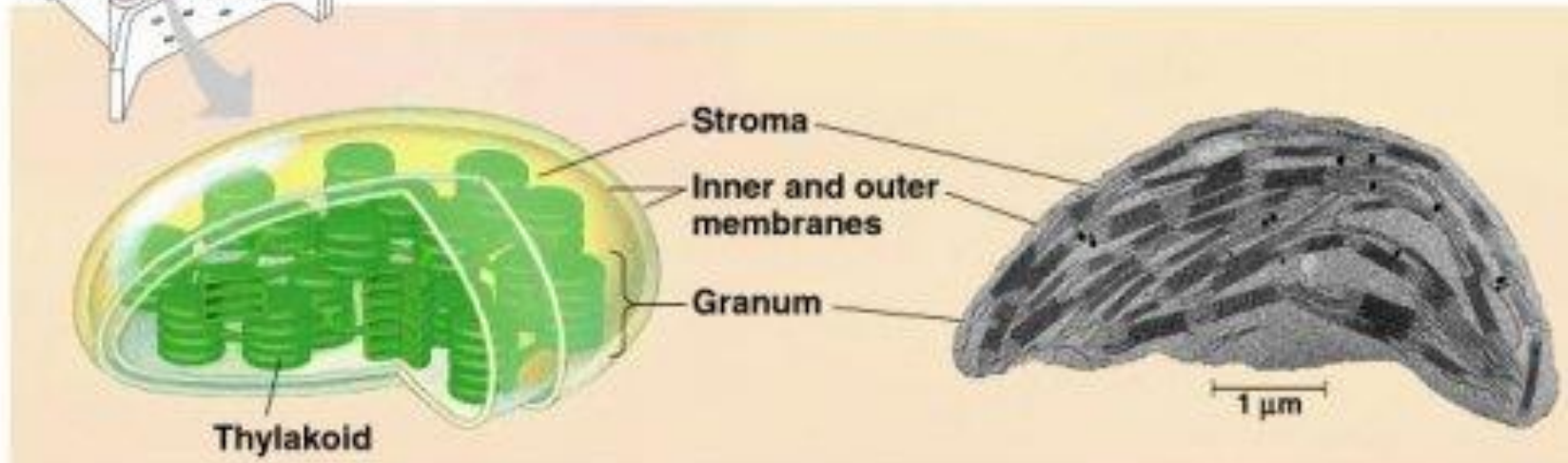
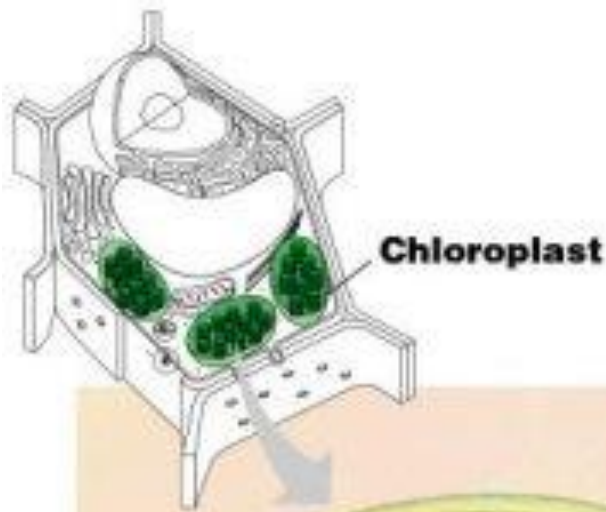


Photosynthesis



Overview

- Occurs in the chloroplast.
- Divided into two stages:
 - Light Reactions.
 - Calvin Cycle.



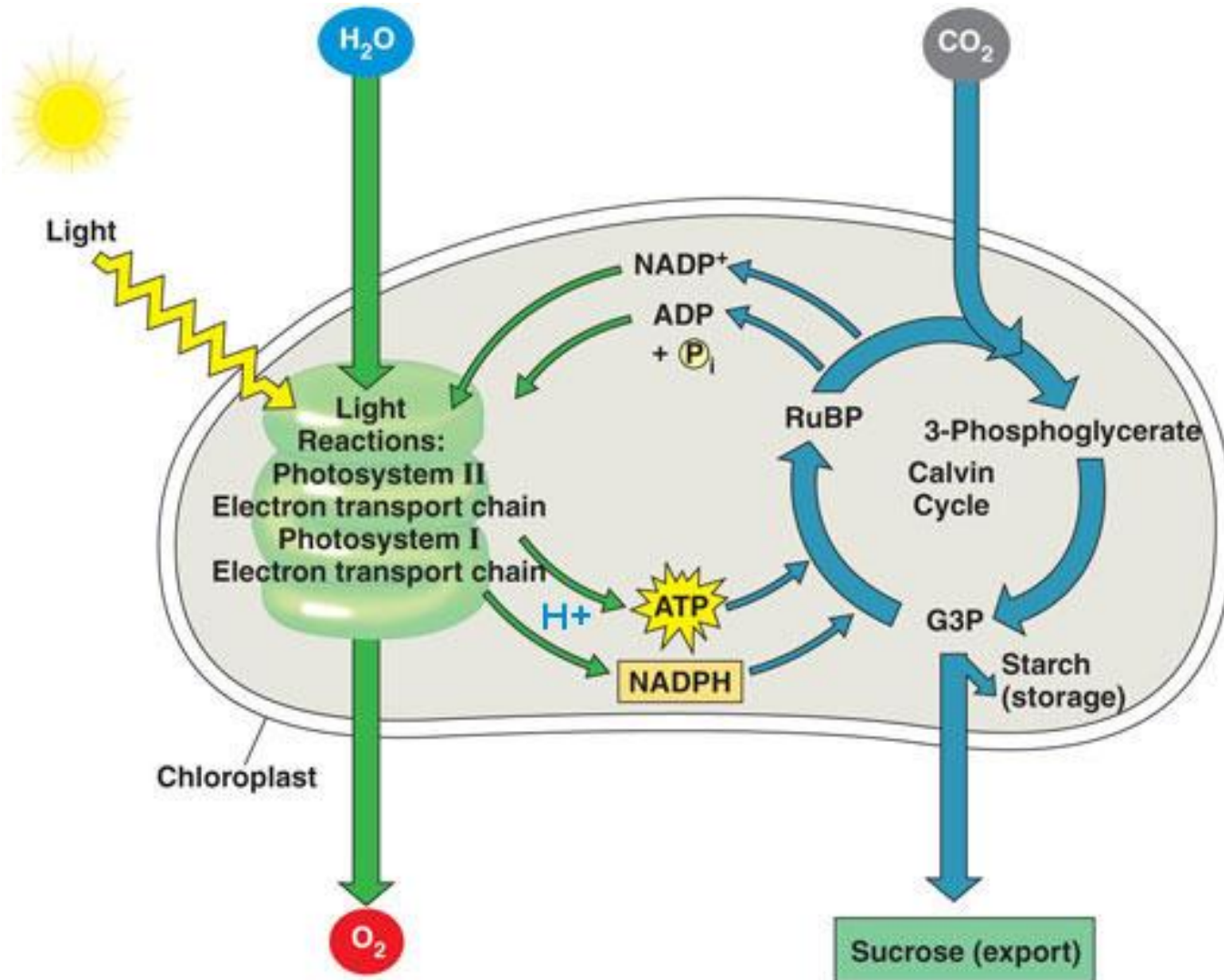
Light Reactions

- Takes place within thylakoid membrane.
- Uses solar energy to:
 - Split water into hydrogen ions, electrons and oxygen.
 - Excite electrons within chlorophyll that sets off a series of reactions that create high energy compounds.

Calvin Cycle

- Takes place within stroma.
- Uses high energy compounds from light reactions to drive the cycle.
- Carbon dioxide combines with intermediate compounds to form glucose.

Photosynthesis



Word & Chemical Equation

Water + Carbon Dioxide → Glucose + Oxygen

