

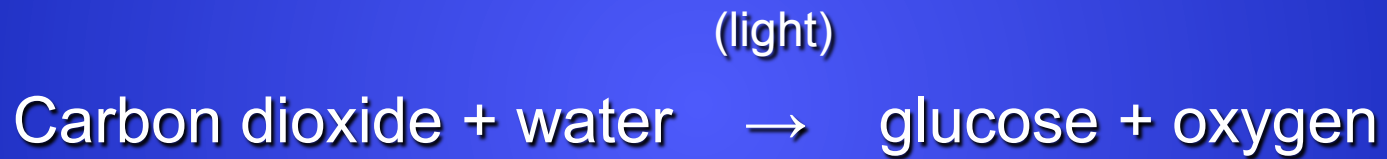
Chapter 8-2: Photosynthesis: An Overview

Essential Questions:

- What is the overall equation for photosynthesis?
- What is the role of light & chlorophyll in photosynthesis?
- What happens in the light-dependent reactions?
- What happens in the Calvin cycle?

- The Photosynthesis equation

- Words:

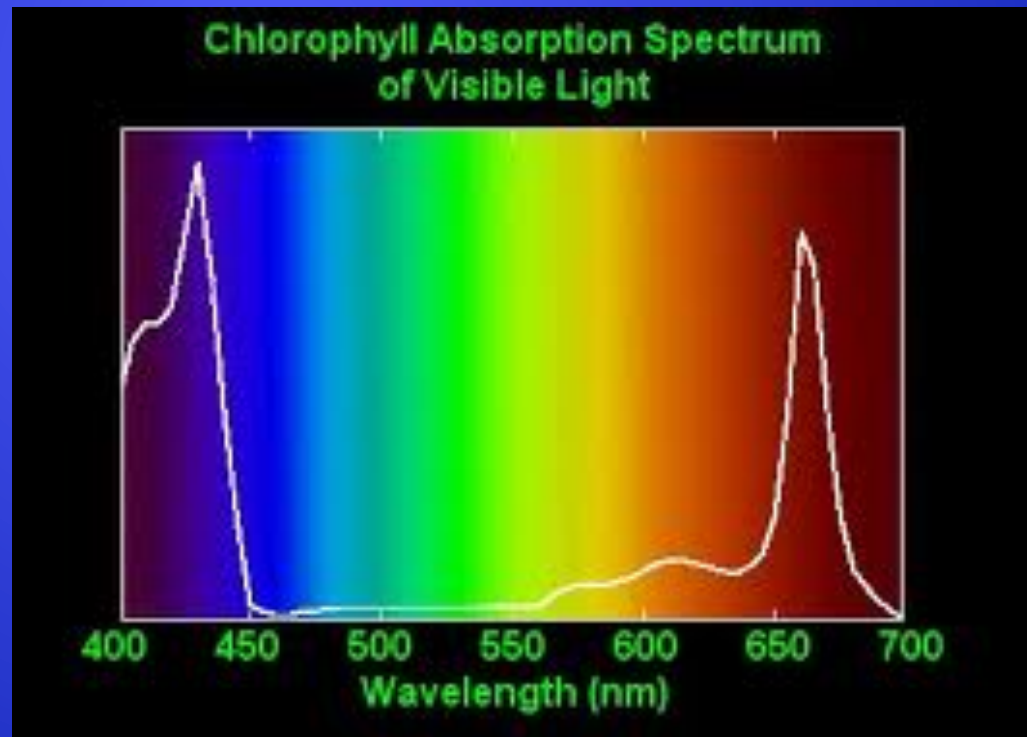


– Chem. Formula



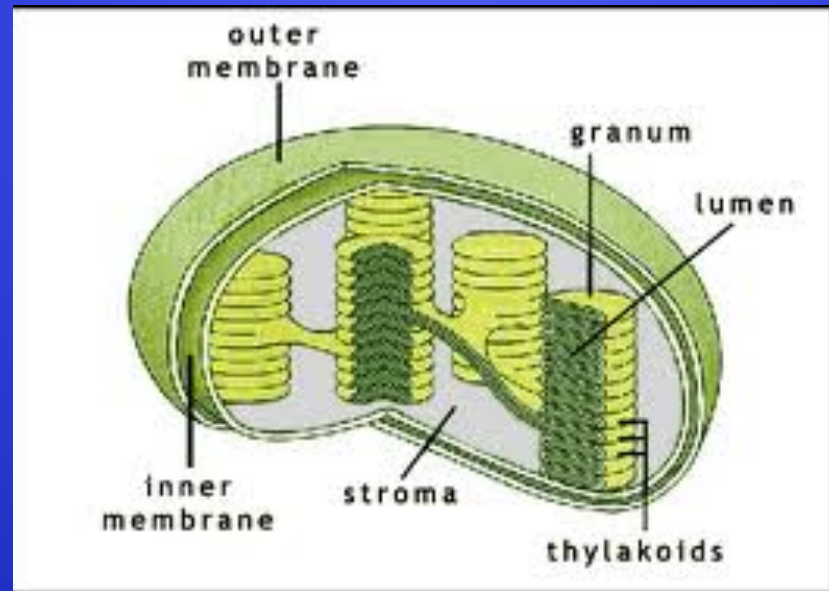
– Light & pigments

- Chlorophyll



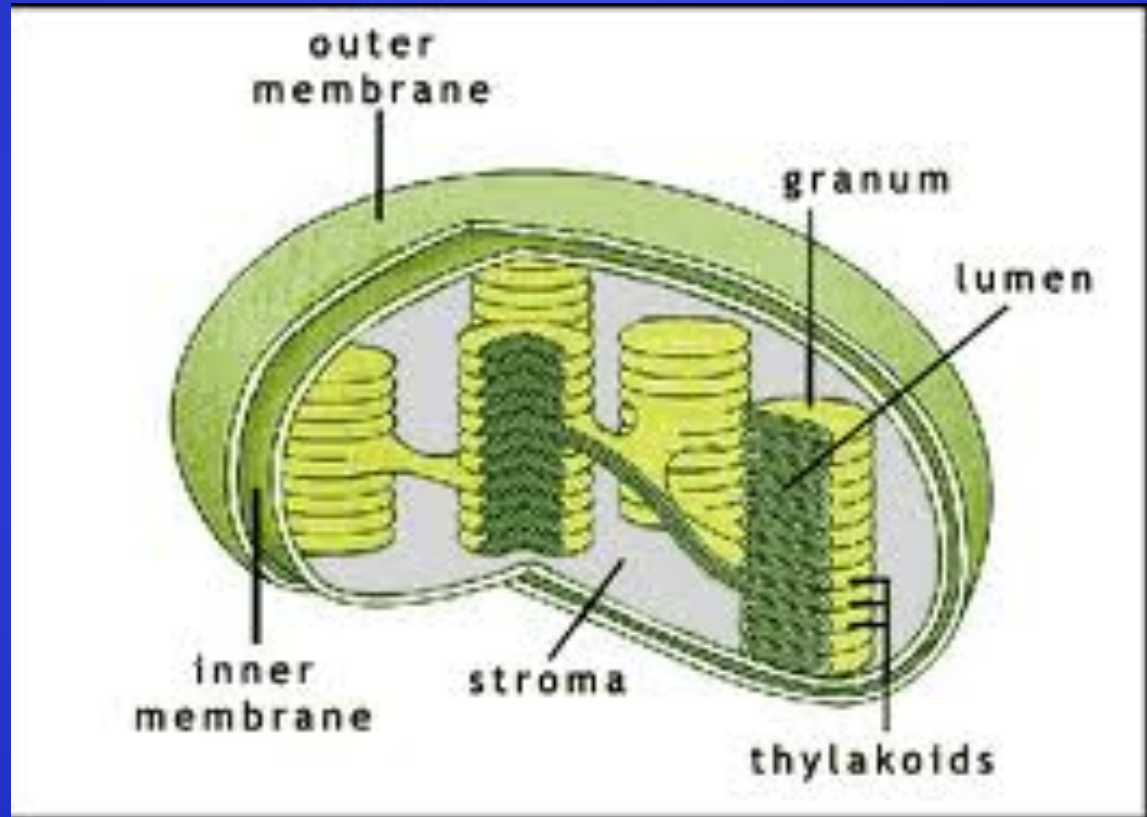
Chapter 8-3: The Reactions of Photosynthesis

- Inside a chloroplast
 - Thylakoids
 - grana (singular: granum)

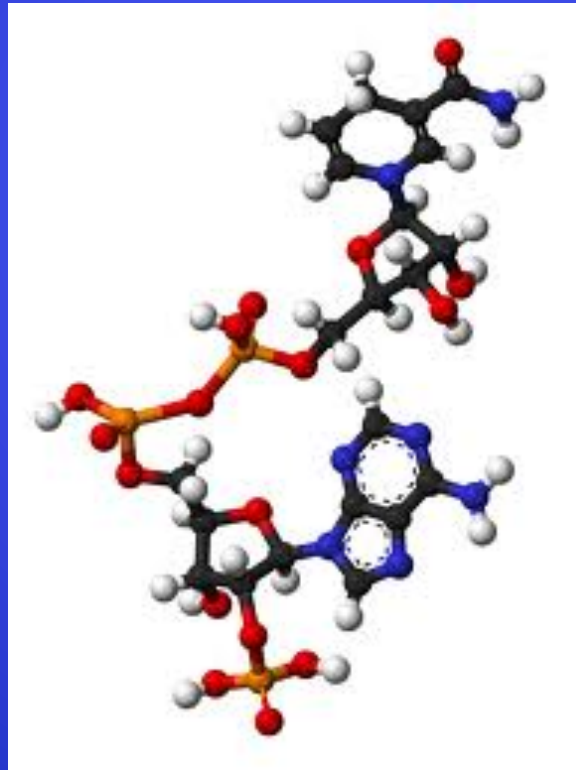


– 2 stages of photosynthesis

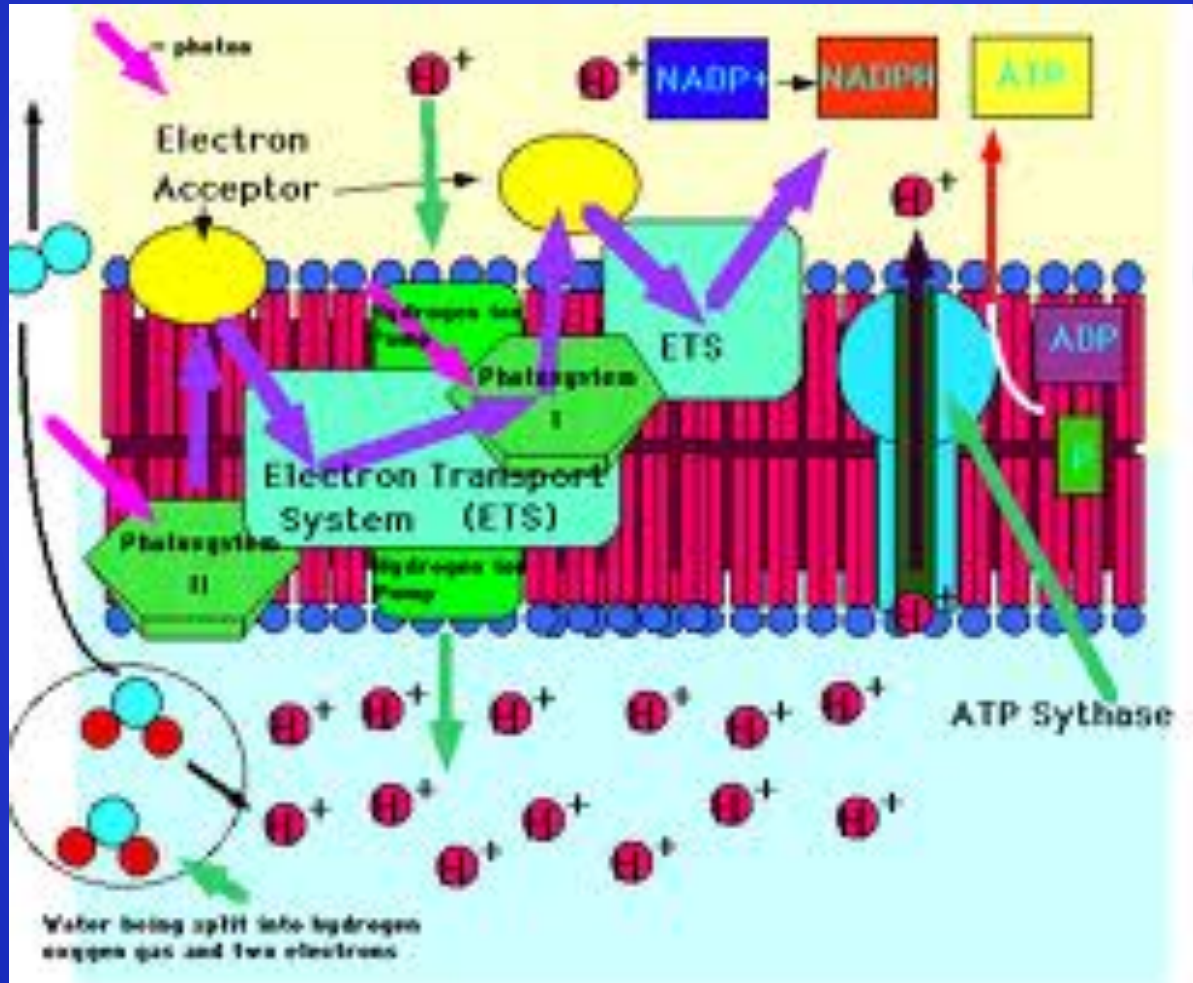
- Light dependent
- Light independent



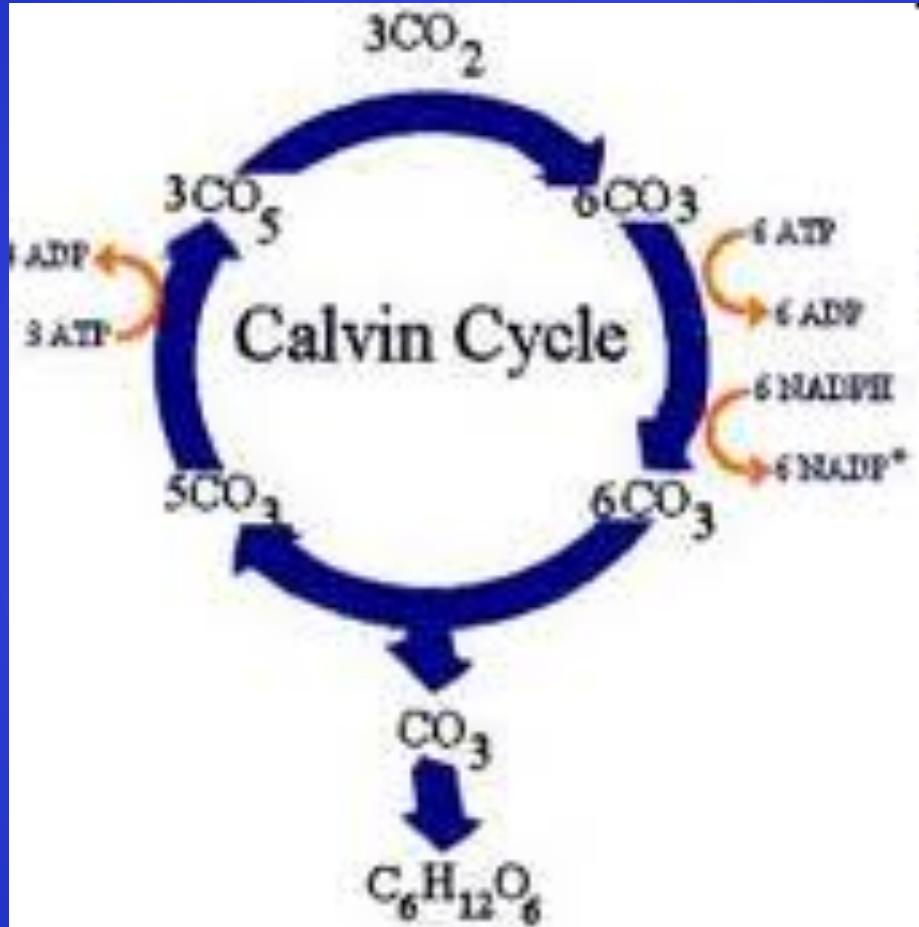
- NADPH
 - NADP⁺
 - Becomes NADPH - energized



- Light-dependent reactions



■ The Calvin Cycle



■ Factors affecting photosynthesis

- Light intensity
- Amount of water
- Temperature

