

Chapter 9.2: Photosynthesis: An Overview

- What role do pigments play in the process of photosynthesis?
- What are electron carrier molecules?
- What are the reactants and products of photosynthesis?

- Chlorophyll & chloroplasts

- Light

- Pigments

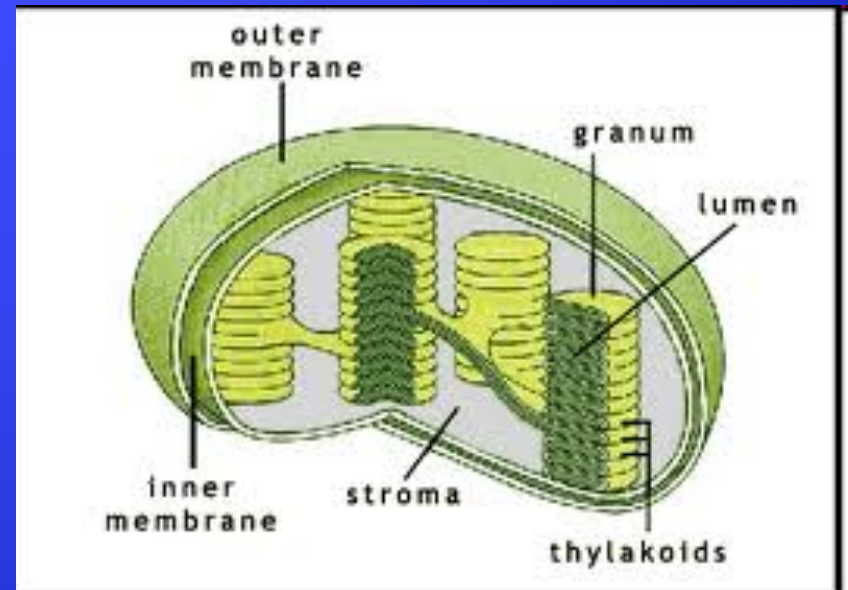
- Chlorophyll

- Chloroplasts

- Thylakoids

- Stroma

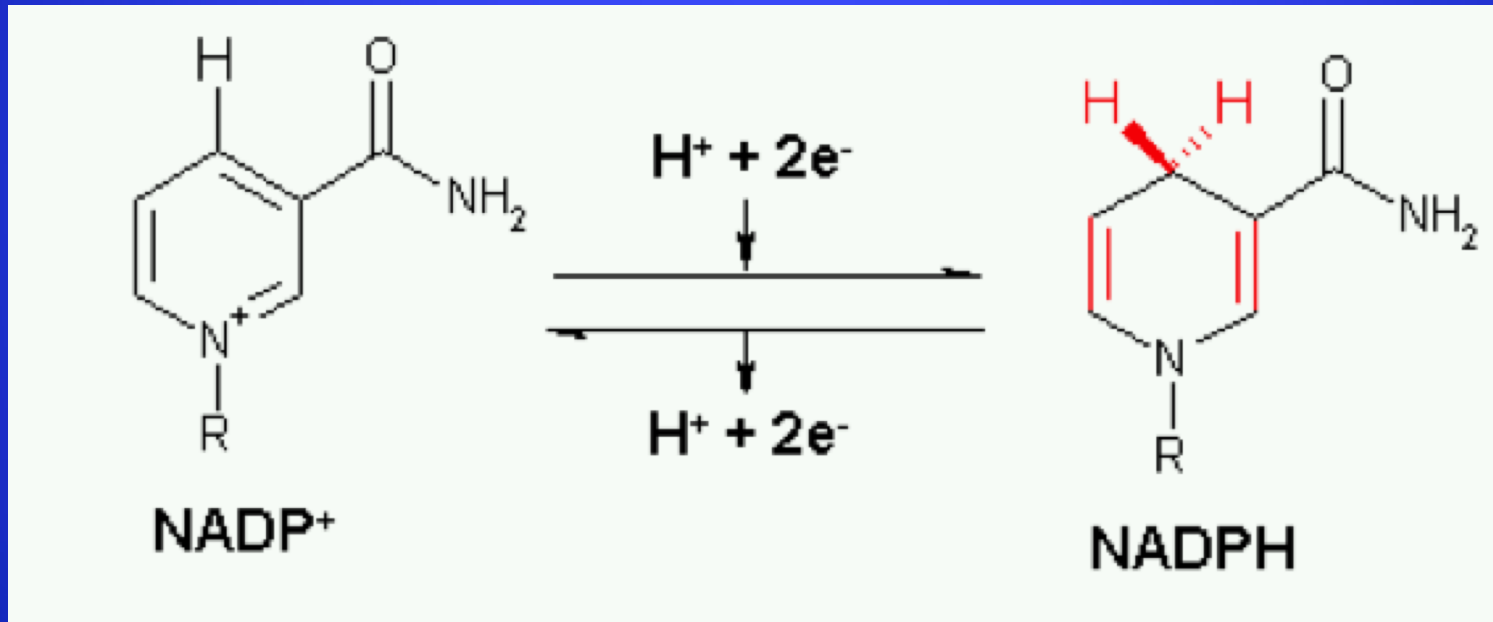
- Energy collection



- High-Energy Electrons

- NADP⁺

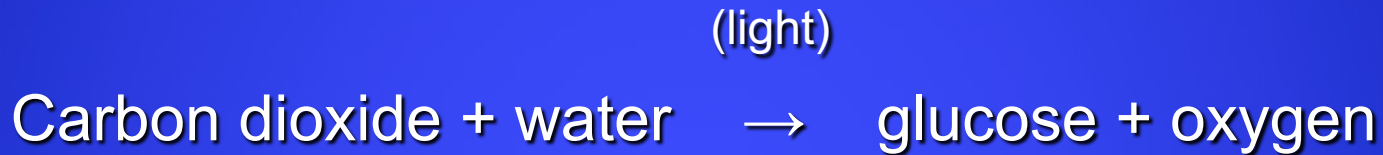
- NADPH



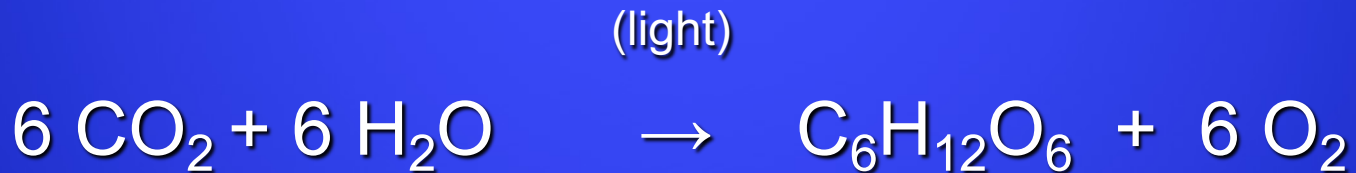
- An Overview of Photosynthesis

- The Photosynthesis equation

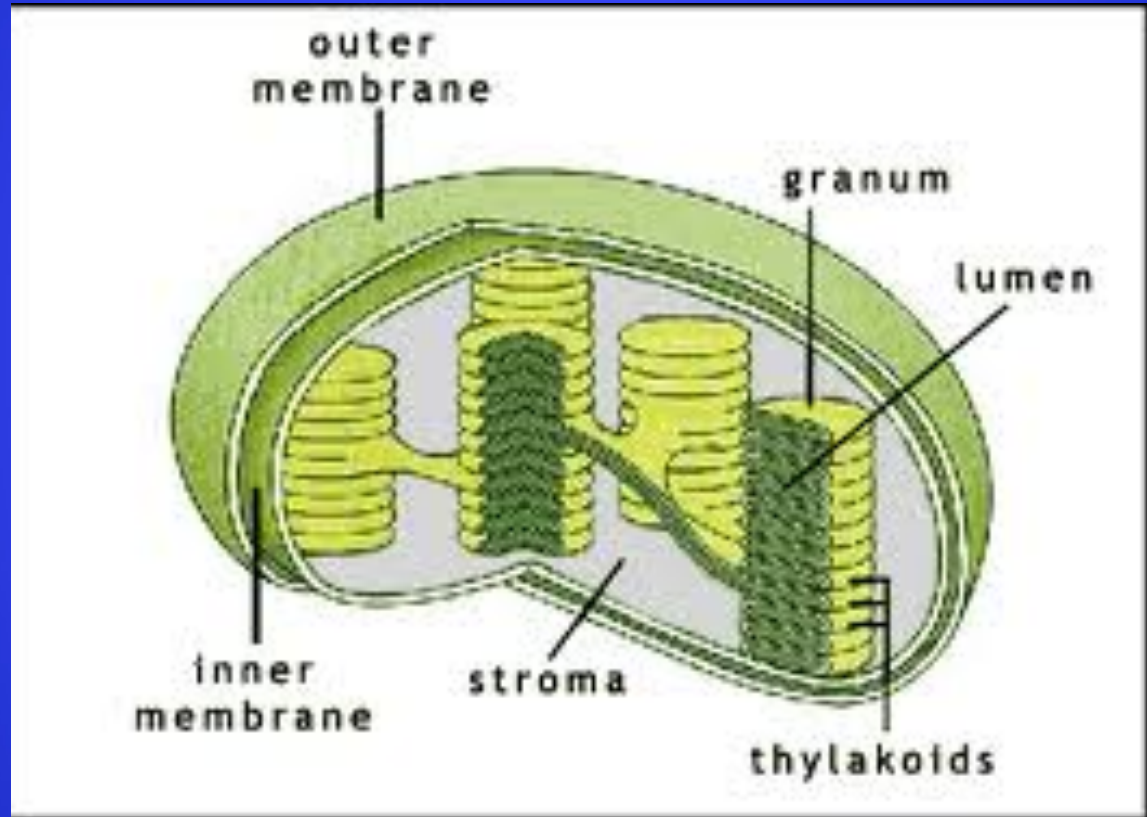
- Words:



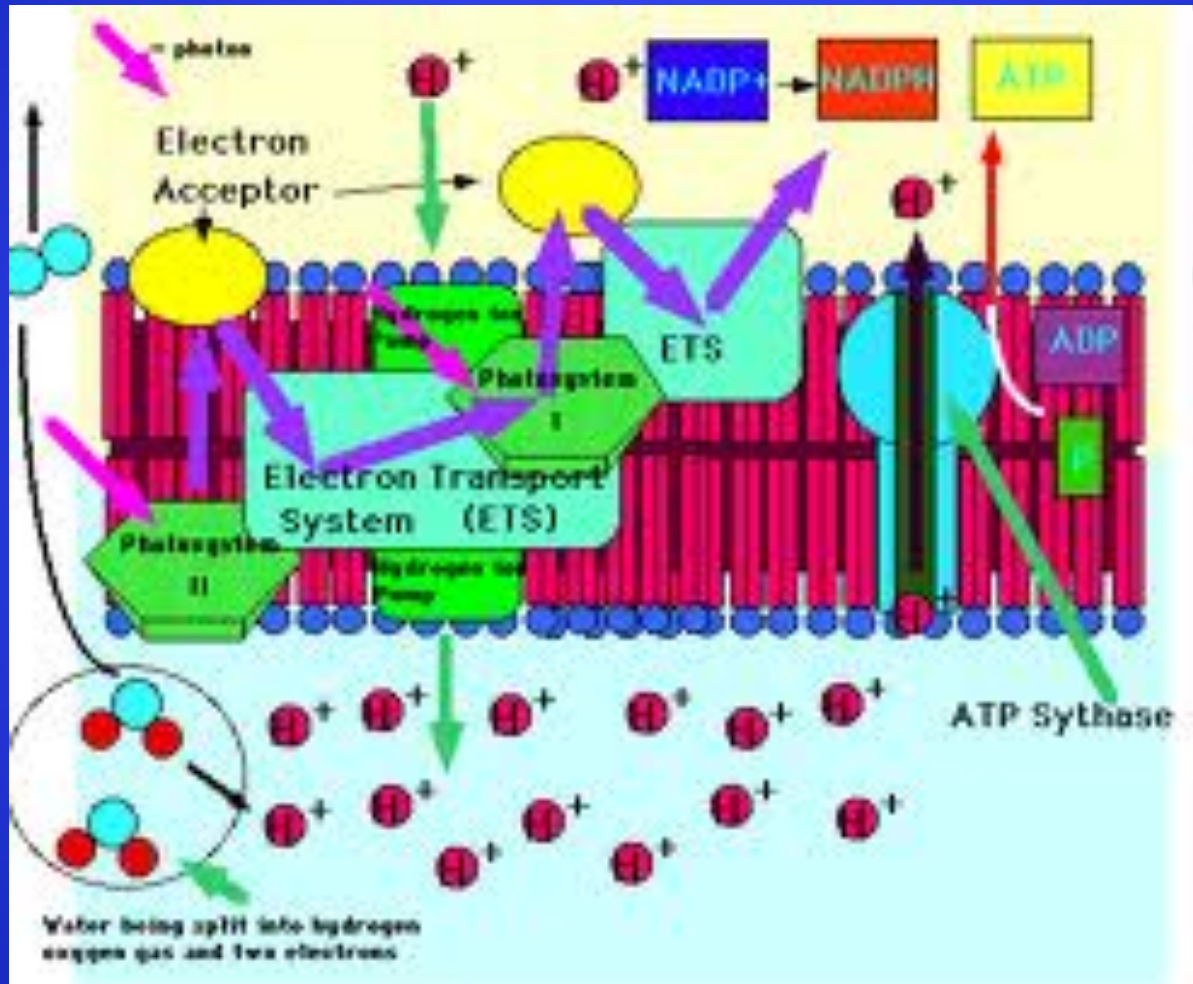
- Chem. Formula



– Light-dependent reactions

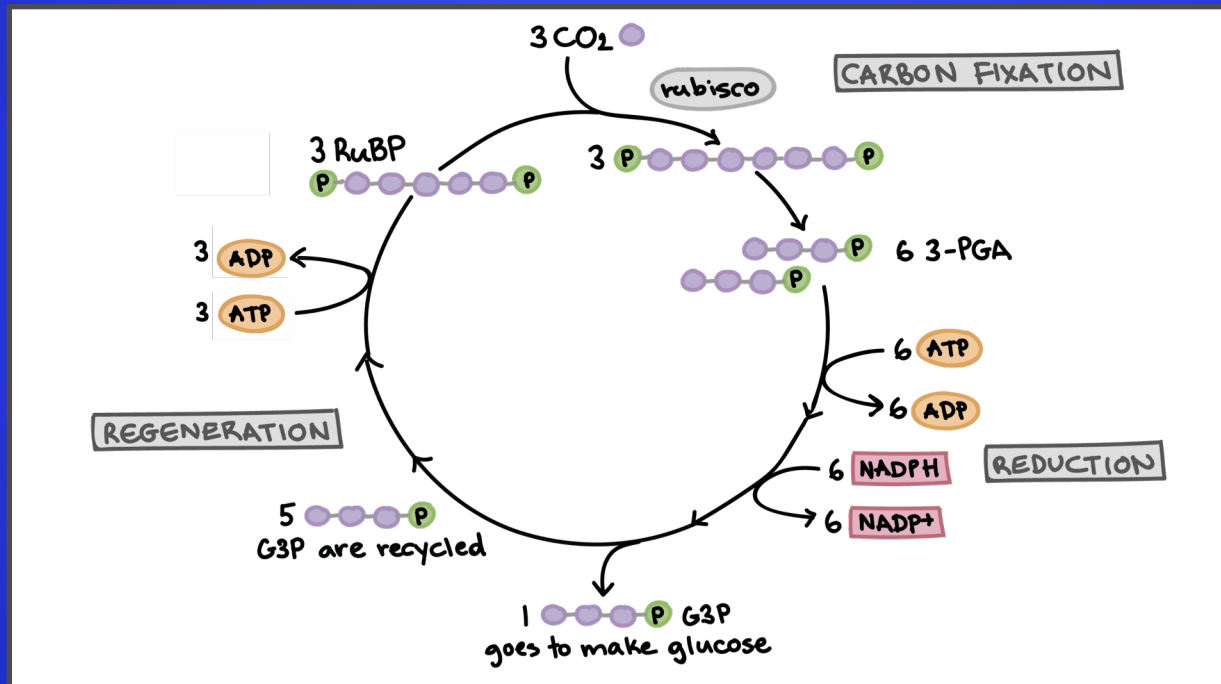


- Light-dependent reactions

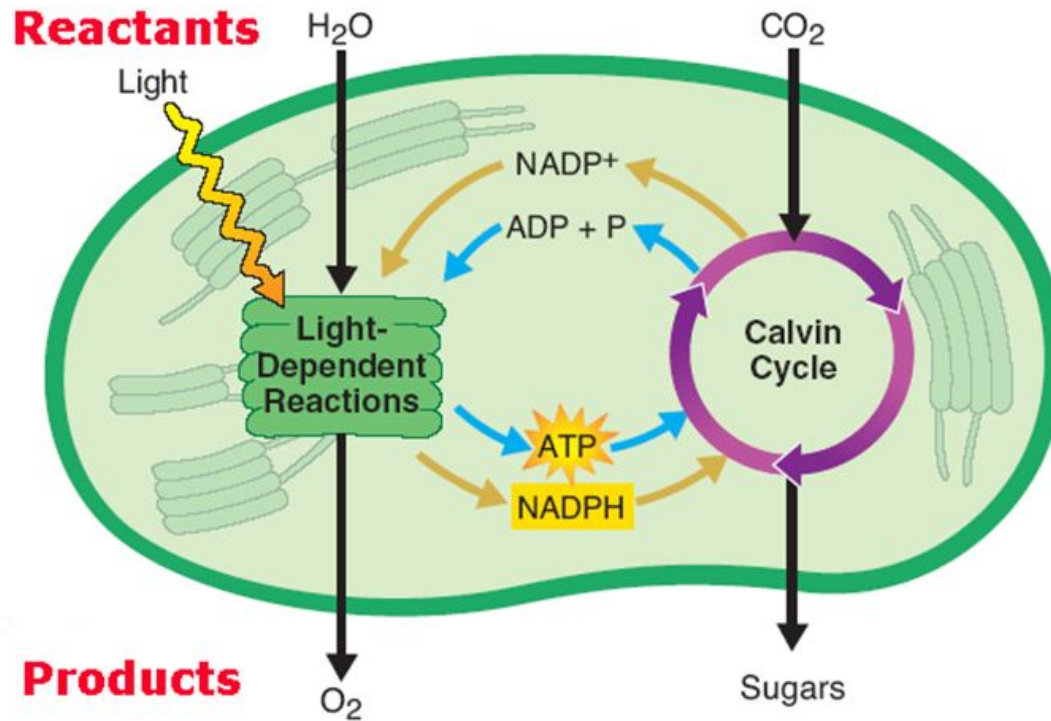


– Light-independent reactions

- aka Calvin Cycle



Photosynthesis Overview



– Factors affecting photosynthesis

- Temperature, light & water
- Photosynthesis under extreme conditions
 - C4 plants
 - CAM plants

