

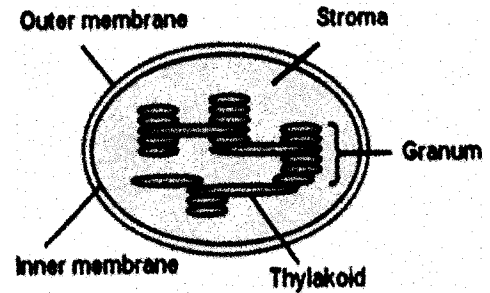
Photosynthesis Equipment and Stages

I. Equipment Needed for Obtaining the Raw Materials of Photosynthesis

- A. : to take in sunlight
- B. : solar collectors containing pigments and energy carrier molecules
- C. = structures with holes on the bottom of leaves to take in CO₂ and release O₂ and water
- D. = water uptake

II. Chloroplast Structure

- A. Stroma
- B. Thylakoids-
 - a. Internal within stroma
 - b. Organized into called
 - c. Embedded with special called



III. Photosynthetic Pigments

- A. Major light absorbing pigments in thylakoid membrane are and
 - a. Both absorb wavelengths best
 - b. Most is back.
- B. Accessory pigments capture light that chlorophyll cannot.
 - a. Carotinoids = pigments ; absorb violet, blue, and green regions
 - b. Xanthophylls pigments; do not absorb light as well
 - c. Anthocyanins = pigments; absorb green light.
- C. What happens in the fall?
 - a. Accessory pigments are plants.
 - b. Chlorophyll is more abundant during with a lot of sunlight.
 - c. In fall, chlorophyll and the other pigments

IV. Importance of Photosynthesis

- A. Process in which the energy in is converted into chemical energy by to make and
- B. The photosynthesis equation shows:

