

SI Session 12

1. Energy and wavelength have a(n) inverse relationship.

2. What is a photon?

light travels as particles called photons

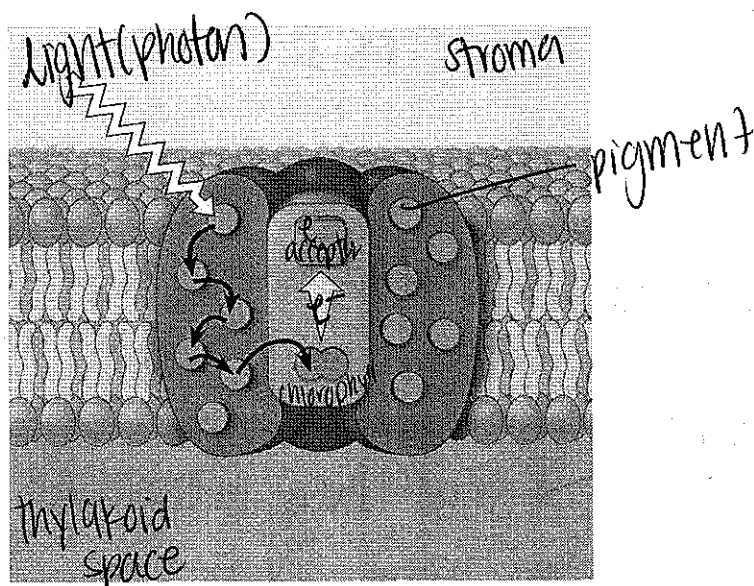
3. What is the general structure of a chlorophyll molecule? How do chlorophyll A and B differ?

hydrocarbon tail

porphyrin ring (w/ CHO in chlorophyll B)
(w/ CH₃ in chlorophyll A)

Mg in middle of ring

4. Label the photosystem

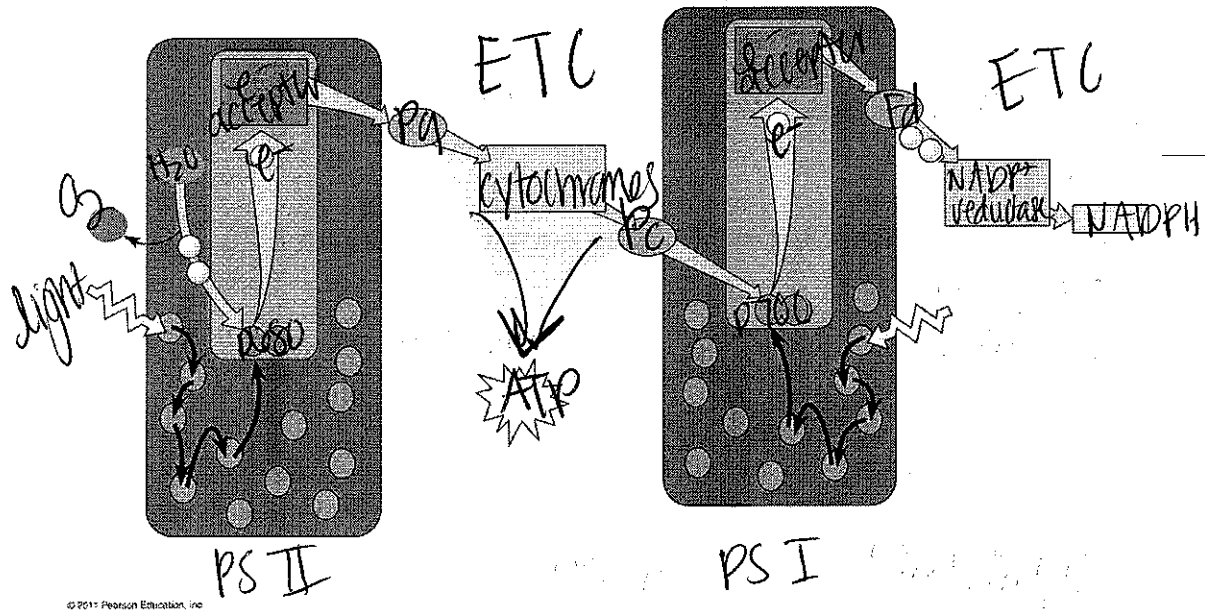


5. What is the difference between linear and cyclic electron flow?

linear: e⁻ travel from PS II → electron transport chain → PS I → e⁻ transport chain → NADP⁺ reductase

cyclic: e⁻ travel b/w PS I ↺ the first electron transport chain

6. Complete the diagram regarding photosynthesis. Label photosystem I and II



7. How does the electron transport chain work in plants?

chemiosmosis!
 *the same as in animal cells

8. Draw out the Calvin Cycle

