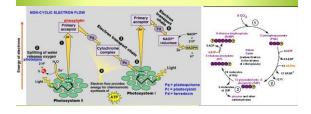


## ENE-1.I Describe the photosynthetic processes that allow organisms to capture and store energy

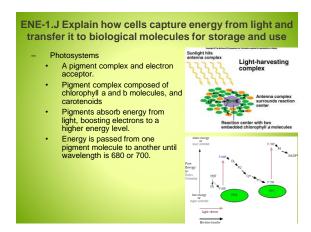
□ The light-dependent reactions of photosynthesis in eukaryotes involve a series of coordinated reaction pathways that capture free energy present in light to yield ATP and NADPH, which power the production of organic molecules

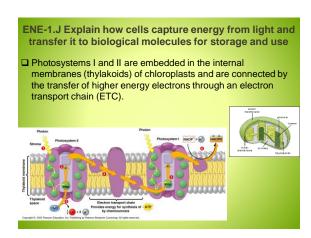


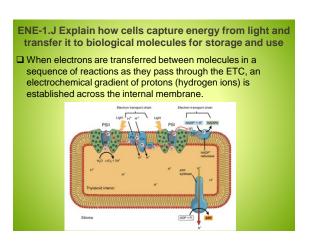
## Photosynthesis Photosynthesis Photosynthesis Photosynthesis Photosynthesis Photosynthesis Photosynthesis

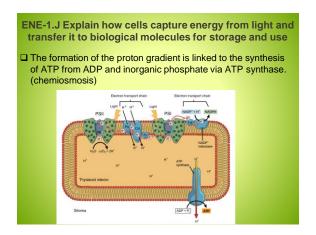
## ■ During photosynthesis, chlorophylls absorb energy from light, boosting electrons to a higher energy level in photosystems I and II.

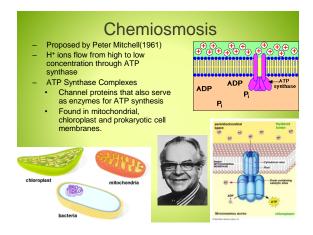
Photosynthesis

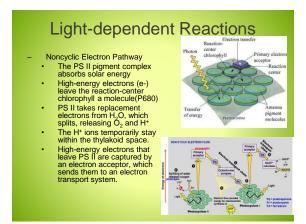


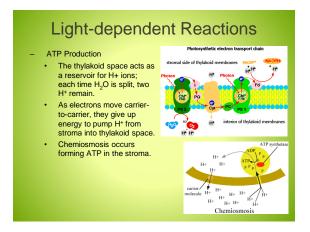


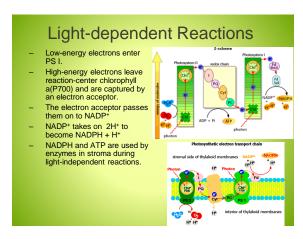


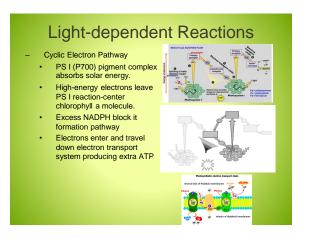












## ENE-1.J Explain how cells capture energy from light and transfer it to biological molecules for storage and use The energy captured in the light reactions and transferred to ATP and NADPH powers the production of carbohydrates from carbon dioxide in the Calvin cycle, which occurs in the stroma of the chloroplast.

