

## STUDY GUIDE

### 02 LIGHT-DEPENDENT REACTIONS

The light-dependent reactions capture photon energy to generate ATP and NADPH. This occurs in the thylakoid membrane.

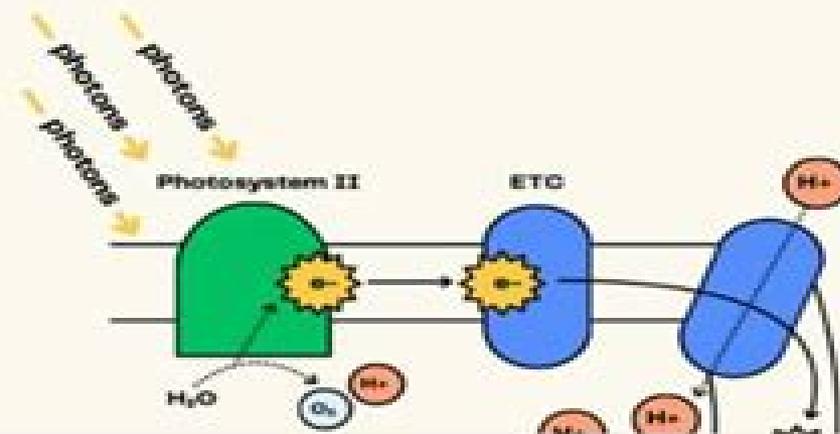
#### Photosystem II (PSII) and Photolysis

- Chlorophyll absorbs photons, exciting electrons in the reaction center.
- Excited electrons leave PSII and enter the electron transport chain (ETC).
- Photolysis of water replaces lost electrons:  

$$2\text{H}_2\text{O} \rightarrow 4\text{H}^+ + 4\text{e}^- + \text{O}_2$$
- $\text{O}_2$  diffuses out and  $\text{H}^+$  contributes to proton gradient.

#### Electron Transport Chain (ETC)

- Electrons move through carriers including plastoquinone (PQ).



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# Light Reactions Modern Biology Study Guide

**N Colangelo**



## **Light Reactions Modern Biology Study Guide:**

## Unveiling the Magic of Words: A Review of "**Light Reactions Modern Biology Study Guide**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Light Reactions Modern Biology Study Guide**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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