

Photosynthesis and Respiration Study Guide

1. What is the purpose of ATP in the cell?

TO PROVIDE USABLE ENERGY FOR THE CELL TO DO WORK



2. What has to happen in order to use the energy stored in ATP?

Break the last phosphate off

3. Draw an arrow to the high energy bond that is made and broken to store/release energy.

Photosynthesis

4. What organisms perform photosynthesis? **AUTOTROPHS**

5. Write the overall equation for photosynthesis:

$\text{CO}_2 + \text{H}_2\text{O} + \text{LIGHT} \rightarrow \text{GLUCOSE} + \text{O}_2$

6. What organelle is being shown in the diagram to the right?

CHLOROPLAST

7. LABEL the diagram with the terms:

Light-independent reactions

Light-dependent reactions

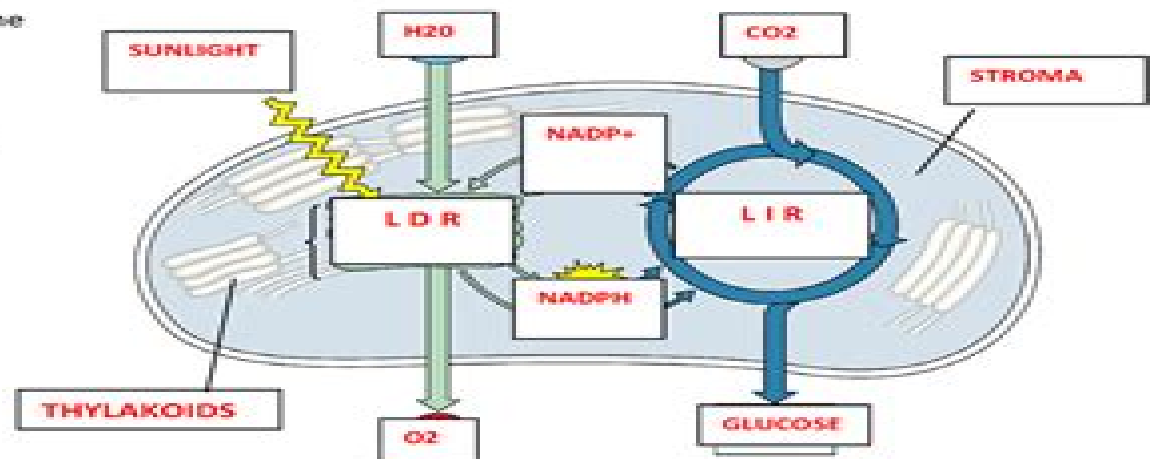
Thylakoids *Stroma*

Sunlight *CO_2*

O_2 *H_2O*

NADPH *NADP^+*

Glucose



8. Briefly describe what occurs in the Light Dependent Reactions:

- Chlorophyll absorbs sunlight in thylakoids.
- Splits water – oxygen releases
- Create NADPH (carries energy to L.I.R.)

9. Briefly describe what occurs in the Light Independent Reactions:

- NADPH bring in energy from L.D.R.
- Put together CO_2 into glucose (carbon fixation!) in stroma

Photosynthesis With Respiration Study Guide

Albert A Gayle



Photosynthesis With Respiration Study Guide:

Unveiling the Power of Verbal Art: An Mental Sojourn through **Photosynthesis With Respiration Study Guide**

In a world inundated with monitors and the cacophony of instant communication, the profound power and emotional resonance of verbal beauty frequently disappear into obscurity, eclipsed by the regular barrage of noise and distractions. However, nestled within the musical pages of **Photosynthesis With Respiration Study Guide**, a charming work of literary beauty that pulses with fresh thoughts, lies an memorable journey waiting to be embarked upon. Penned by way of a virtuoso wordsmith, that exciting opus manuals readers on an emotional odyssey, delicately exposing the latent possible and profound impact stuck within the complicated internet of language. Within the heart-wrenching expanse with this evocative examination, we can embark upon an introspective exploration of the book is central themes, dissect their captivating publishing style, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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