

## Photosynthesis and Respiration Study Guide

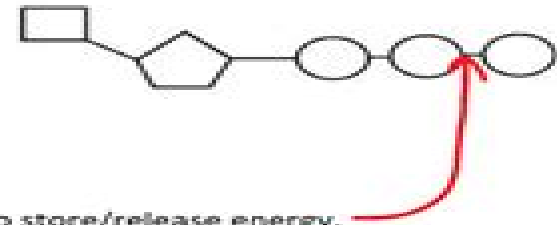
1. What is the purpose of ATP in the cell?

**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:



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*

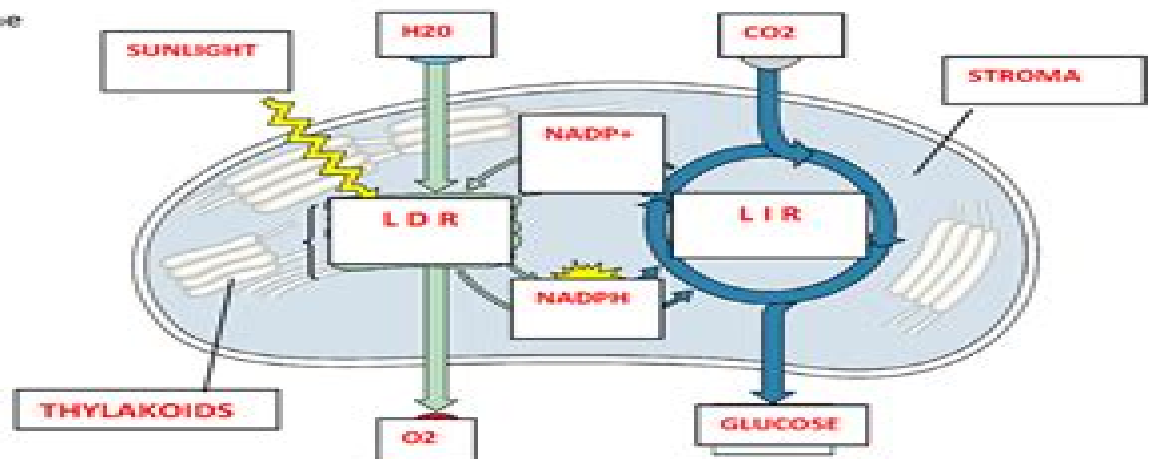
*Thylakoids*                      *Stroma*

*Sunlight*                      *CO<sub>2</sub>*

*O<sub>2</sub>*                      *H<sub>2</sub>O*

*NADPH*                      *NADP<sup>+</sup>*

*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<sub>2</sub> into glucose (carbon fixation!) in stroma

# Photosynthesis And Respiration Study Guide

**RM Cervero**



## **Photosynthesis And Respiration Study Guide:**

## The Enigmatic Realm of **Photosynthesis And Respiration Study Guide**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Photosynthesis And Respiration Study Guide** a literary masterpiece penned with a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of people who partake in its reading experience.

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