

## 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*

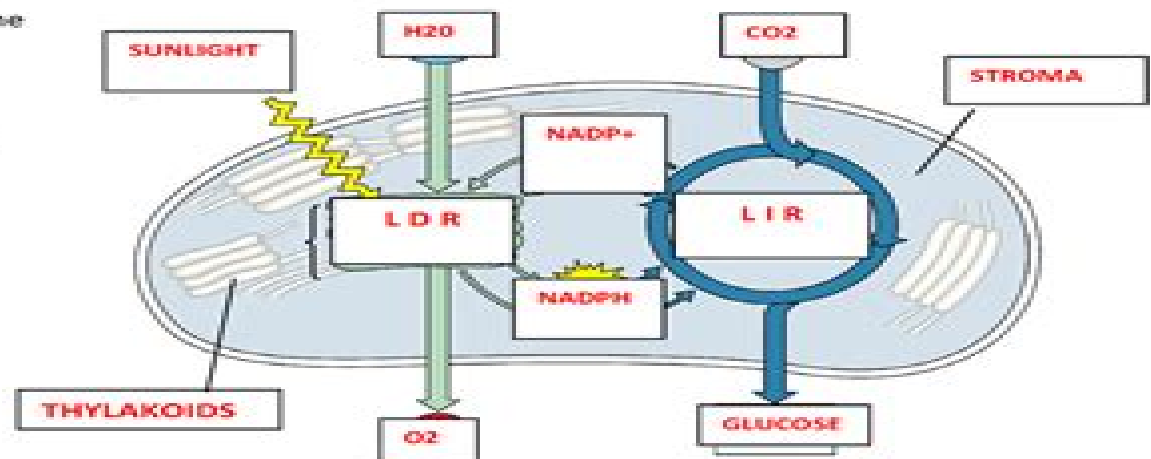
*Thylakoids*                      *Stroma*

*Sunlight*                       *$\text{CO}_2$*

*$\text{O}_2$*                        *$\text{H}_2\text{O}$*

*NADPH*                       *$\text{NADP}^+$*

*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  $\text{CO}_2$  into glucose (carbon fixation!) in stroma

# Photosynthesis And Respiration Study Guide

**Arihant Experts**



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

*Life Study Guide* David E. Sadava, Gordon H. Orians, Craig Heller, William K. Purves, 2006-12-22 Especially helpful for AP Biology students each chapter of the study guide offers a variety of study and review tools The contents of each chapter are broken down into both a detailed review of the Important Concepts covered and a boiled down Big Picture snapshot The guide also covers study strategies common problem areas and provides a set of study questions both multiple choice and short answer

*Science Curriculum Topic Study* Page Keeley, 2005-02-23 Without question this book will be of great value to the profession of science teaching Given today's educational landscape of standards and high stakes testing curriculum topic study is an essential piece of the puzzle Cary Sneider Vice President for Educator Programs Museum of Science Boston Discover the missing link between science standards teacher practice and improved student achievement Becoming an accomplished science teacher not only requires a thorough understanding of science content but also a familiarity with science standards and research on student learning However a comprehensive strategy for translating standards and research into instructional practice has been lacking since the advent of standards based education reform Science Curriculum Topic Study provides a systematic professional development strategy that links science standards and research to curriculum instruction and assessment Developed by author Page Keeley of the Maine Mathematics and Science Alliance the Curriculum Topic Study CTS process can help teachers align curriculum instruction and assessment with specific research based ideas and skills The CTS process will help teachers Improve their understanding of science content Clarify a hierarchy of content and skills in a learning goal from state or local standards Define formative and summative assessment goals and strategies Learn to recognize and address learning difficulties Increase opportunities for students of all backgrounds to achieve science literacy Design or utilize instructional materials effectively Containing 147 separate curriculum topic study guides arranged in eleven categories that represent the major domains of science this book provides the tools to both positively impact student learning and develop the knowledge and skills that distinguish expert science teachers from novices

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