

Pre Lab Photosynthesis/Respiration Lab

Name: Angela Villanueva

Week 4

PLS 100- 013

PROCEDURE: Answer the following questions.

1. What do we call the process utilized by organisms to release energy which has been stored in molecules like sugar? **Cellular Respiration**
2. What is the equation for this energy releasing process?
 $C_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2 + 6H_2O + \text{energy(ATP)}$
3. Why can't seeds just utilize photosynthesis to supply their energy needs? What is the selective advantage for seeds utilizing respiration? **Seeds cannot use photosynthesis to supply their energy needs because chloroplasts are not present in this stage. Because seeds require energy to develop and grow, respiration allows them to build the cells needed to break open and produce root and stem.**
4. What organelle does respiration take place?
Mitochondria

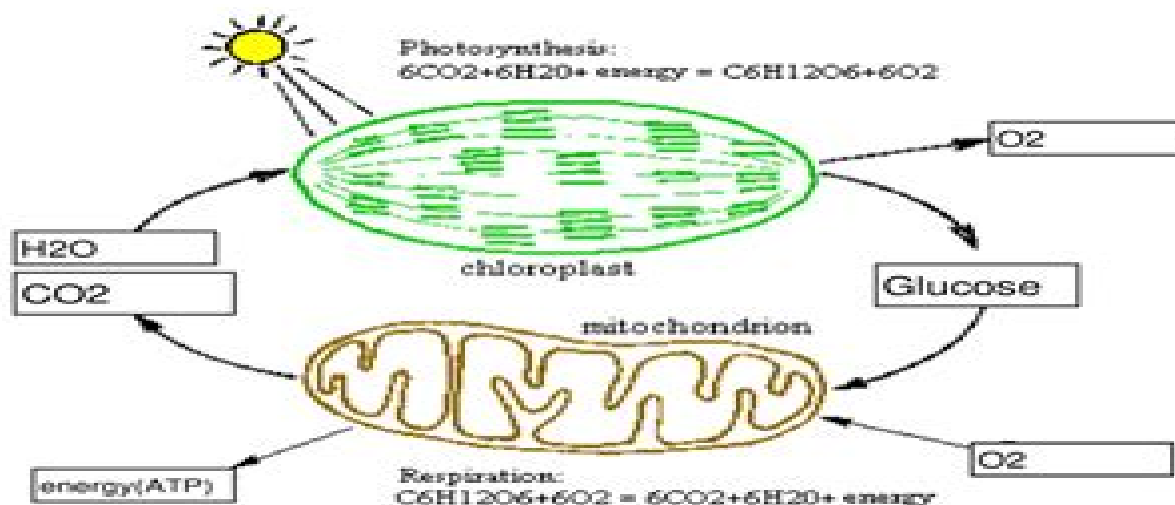


Figure 16- With the photosynthesis, the solar energy is converted by the chloroplasts as sugar molecules. With the glycolysis and the respiration, made by mitochondria, the energy is liberated and supplied to the cell for its biochemical processes.

5. **Comparison of Photosynthesis & Respiration** (fill in chart with the following "actions")

Oxygen is released Water is produced Energy is released Occurs in dark and light Requires light

Photosynthesis	Respiration
Produces sugars from energy	Burns sugars for energy
Energy is stored	Energy is released

Photosynthesis And Respiration Pre Lab Answers

Marie Lynn Jasper



Photosynthesis And Respiration Pre Lab Answers:

A Comparison of an Integrated, Project-based Unit and a Traditional Teaching Unit in Content Acquisition and Attitudinal Changes Ranae Ikerd,1995 Instructor's Manual for the Laboratory Manual for Starr and Taggart's Biology : The Unity and Diversity of Life and Starr's Biology Concepts and Applications James W. [et. al]. Perry,2002 **Cells** ,1997

Biology ,1998 **Replacing Lecture with Active Learning in an Advanced Placement Biology Course** Kelly Lynn Joos,2007 *Ask the Science Expert* Pam Walker,2001-01-15 Students become the science experts themselves as they read through the advice column format of each problem then develop their own plan for research that will solve the problem and answer the questions They then organize their data and respond to the questions probed in each simulation Includes problems in both life and physical sciences and supports the National Science Education Standards **Chemistry in the Laboratory** James M. Postma,Julian L. Robert,J. Leland Hollenberg,2004-03-12 This clearly written class tested manual has long given students hands on experience covering all the essential topics in general chemistry Stand alone experiments provide all the background introduction necessary to work with any general chemistry text This revised edition offers new experiments and expanded information on applications to real world situations *Carolina Science and Math* Carolina Biological Supply Company,2003 *The Effect of Computer-assisted Instruction and Laboratory Experimentation on the Learning of Photosynthesis and Respiration in High School Biology* Marlo Dawn Wiltse,2002 *Ecophysiology and Biogeochemistry of Marine Plants in the Anthropocene* Kasper Elgetti Brodersen,Stacey Marie Trevathan-Tackett,Fanny Noisette,Mats Björk,Anthony William Larkum,Marianne Holmer,Michael Kühl,2022-09-29 **40 Inquiry Exercises for the College Biology Lab** A. Daniel Johnson,2009 Drawing from the author s own work as a lab developer coordinator and instructor this one of a kind text for college biology teachers uses the inquiry method in presenting 40 different lab exercises that make complicated biology subjects accessible to major and nonmajors alike The volume offers a review of various aspects of inquiry including teaching techniques and covers 16 biology topics including DNA isolation and analysis properties of enzymes and metabolism and oxygen consumption Student and teacher pages are provided for each of the 16 topics

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The Effect of Laboratory Experimentation Along with Graphical and Data Analysis on the Learning of Photosynthesis and Cellular Respiration in a High School Biology Classroom Marie Lynn Jasper, 2007

Biological Investigations Lab Manual Warren Dolphin, David Vleck, Linda Westgate, James Colbert, 2010-01-27 The lead author of eight successful previous editions has brought together a team that combined has well over 60 years experience in offering beginning biology labs to several thousand students each year at Iowa State University Their experience and diverse backgrounds ensure that this extensively revised edition will meet the needs of a new generation of students Designed to be used with all majors level general biology textbooks the included labs are investigative using both discovery and hypothesis based science methods Students experimentally investigate topics observe structure use critical thinking skills to predict and test ideas and engage in hands on learning Students are often asked what evidence do you have that in order to encourage them to think for themselves By emphasizing investigative quantitative and comparative approaches to the topics the authors continually emphasize how the biological sciences are integrative yet unique An instructor s manual available through McGraw Hill Lab Central provides detailed advice based on the authors experience on how to prepare materials for each lab teachings tips and lesson plans and questions that can be used in quizzes and practical exams This manual is an excellent choice for colleges and universities that want their students to experience the breadth of modern biology

Selected Water Resources Abstracts, 1991

EPA Publications Bibliography United States. Environmental Protection Agency, 1997

EPA Publications Bibliography Quarterly Abstract Bulletin United States. Environmental Protection Agency, 1997

Oceanography, 1963

Nuclear Science Abstracts, 1975

Ecological Studies of the Sacramento-San Joaquin Delta California. Department of Fish and Game, 1966

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