

Photosynthesis Lab

Answer Key

Vocabulary: carbon dioxide, chlorophyll, glucose, limiting factor, nanometer, photosynthesis, wavelength

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

[Note: The purpose of these questions is to activate prior knowledge and get students thinking. Students are not expected to know the answers to the Prior Knowledge Questions.]

- To survive, what gas do we need to breathe in? *Oxygen*
- Where is this gas produced? *In plants*

Gizmo Warm-up

During **photosynthesis**, plants use the energy of light to produce **glucose** ($C_6H_{12}O_6$) from **carbon dioxide** (CO_2), and water (H_2O). Glucose is a simple sugar that plants use for energy and as a building block for larger molecules.

A by-product of photosynthesis is oxygen. Plants use some of the oxygen they produce, but most of it is released. In the *Photosynthesis Lab Gizmo™*, you can monitor the rate of photosynthesis by measuring oxygen production.



1. Observe the left pane closely. What do you think the bubbles are? *Oxygen*
2. Select the **BAR CHART** tab. On the graph, notice the **Oxygen production** bar. Move the **Light intensity** slider back and forth. How does light intensity affect oxygen production?

Up to 40%, increasing the light intensity increases the oxygen production. Beyond 40% there is no effect.

3. Experiment with the vertical **Temperature** slider (upper left) and the **CO₂ level** slider.

- A. How does temperature affect oxygen production?

Oxygen production is maximized around 25°C. Oxygen production goes down when temperature is too hot or too cold.

- B. How does CO₂ level affect oxygen production?

Up to about 300–400 ppm, increasing CO₂ production increases oxygen production. Beyond about 400 ppm, there is no change in oxygen production as CO₂ level is increased.

- C. How does oxygen production relate to the rate of photosynthesis?

A greater flow of oxygen corresponds to a higher rate of photosynthesis.

Students Exploration Photosynthesis Lab Answer Key

G Orfield



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Teaching and Learning about Climate Change Daniel P. Shepardson, Anita Roychoudhury, Andrew S. Hirsch, 2017-02-17
Responding to the issues and challenges of teaching and learning about climate change from a science education based perspective this book is designed to serve as an aid for educators as they strive to incorporate the topic into their classes The unique discussion of these issues is drawn from the perspectives of leading and international scholars in the field The book is structured around three themes theoretical philosophical and conceptual frameworks for climate change education and research research on teaching and learning about global warming and climate change and approaches to professional development and classroom practice *Middle School Life Science* Judy Capra, 1999-08-23 Middle School Life Science Teacher s Guide is easy to use The new design features tabbed loose sheets which come in a stand up box that fits neatly on a bookshelf It is divided into units and chapters so that you may use only what you need Instead of always transporting a large book or binder or box you may take only the pages you need and place them in a separate binder or folder Teachers can also share materials While one is teaching a particular chapter another may use the same resource material to teach a different chapter It s simple it s convenient **Chapter Resource 5 Photosynthesis/Cell Response Biology** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 *Nuclear Science Abstracts* , 1974-06 **Scientific and Technical Aerospace Reports** , 1994 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database **Resources in Education** , 1996 *Keywords Index to U.S. Government Technical Reports* United States. Department of Commerce. Office of Technical Services, 1963 *Keywords Index to U.S. Government Technical Reports (permuted Title Index)*. United States. Department of Commerce. Office of Technical Services, 1962 **Energy Research Abstracts** , 1990 Forest, Land, and Water Dennis W. Sunal, 1994 SeaWiFS Technical Report Series Elaine R. Firestone, 1998 Energy Abstracts for Policy Analysis , 1978-07 **Bibliography Related to Human Factors System Program** Richard J. Potocko, 1964 *Selected Water Resources Abstracts* , 1978 An Introductory Guide to EC Competition Law and Practice Valentine Korah, 1994 **Report summaries** United States. Environmental Protection Agency, 1983 The American Biology Teacher , 2000 **Science Worksheets Don't Grow Dendrites** Marcia L. Tate, Warren G. Phillips, 2010-10-20 Best selling author Marcia L Tate outlines 20 proven brain compatible strategies rationales from experts to support their effectiveness and more than 250 activities in this practical resource *Learning & Teaching with Technology* Som Naidu, 2003 Exploring the creative opportunities opened up by ICT in the modern classroom this text presents an authoritative survey of ICT s impact upon core teaching functions and draws from the experiences of leading practitioners in the field *U.S. Government Research & Development Reports* , 1970

Students Exploration Photosynthesis Lab Answer Key Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Students Exploration Photosynthesis Lab Answer Key**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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