



Student Exploration: Photosynthesis Lab

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

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

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

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.



- Observe the left pane closely. What do you think the bubbles are? I think the bubbles are bubbles of oxygen.
- 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?
When the light intensity increases the oxygen production also increases.
- Experiment with the vertical **Temperature** slider (upper left) and the **CO₂** level slider.
 - How does temperature affect oxygen production?
Oxygen production decreases when the temperature is over 31 degrees and increases between 17 and 31 degrees.
 - How does CO₂ level affect oxygen production?
When the CO₂ level is under 230ppm oxygen production decreases, when the CO₂ levels are over 230ppm the oxygen production doesn't change.



Answers For Student Exploration Photosynthesis Lab

Steve Metz

Answers For Student Exploration Photosynthesis Lab:

Chapter Resource 5 Photosynthesis/Cell Response Biology Holt Rinehart & Winston, Holt, Rinehart and Winston Staff,2004 **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 **Exploring Biology** Wilke,1996-04 **Fuel for Thought** Steve Metz,2011 The concept of energy is central to all the science disciplines seamlessly connecting science technology and mathematics For high school and upper middle school teachers this compendium comprises inquiry based activities lesson plans and case studies designed to help teach increased awareness of energy environmental concepts and the related issues **Nor'easter** ,1990 **Resources in Education** ,1984 **The Software Encyclopedia 2001** ,2001 School Library Journal ,1987 **The American Biology Teacher** ,2002 **Ecology: Teacher's ed** ,2005 **Current Index to Journals in Education** ,1996 *THE Journal* ,1997 *American Men of Science* ,1949 *Becoming a Secondary School Science Teacher* Jazlin V. Ebenezer,Sharon M. Haggerty,1999 This book provides a comprehensive survey of strategies developed to promote authentic meaningful science learning The book includes a wide ranging review of educational theories and practices as well as many useful science lessons and assessment strategies *Biology/science Materials* Carolina Biological Supply Company,1991 *What Research Says to the Science Teacher* ,1978 Grade level 1 2 3 4 5 6 7 8 9 10 11 12 p e i s t **University Catalog** University of Northern Iowa,1992 *The Video Source Book* David J. WEINER,1990 **Discovering a Framework for Scientific Literacy** Beth Ellen Simmons,2001 **The software catalog microcomputers** Menu (Firm) (Fort Collins, Colo.),1989

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