Name:

Date:

Student Exploration: Photosynthesis Lab

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

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?
- Where is this gas produced?

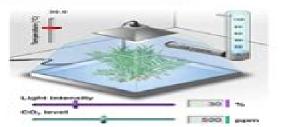
Oxygen

Plants.

Gizmo Warm-up

During **photosynthesis**, plants use the energy of light to produce **glucose** $(C_0H_{12}O_0)$ 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?

Those Oxygen Bubbles

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?

Oxygen production decreases with reduced light intensity.

- 3. Experiment with the vertical Temperature slider (upper left) and the CO2 level slider.
 - A. How does temperature affect oxygen production?

B. How does CO2 level affect oxygen production?

C. How does oxygen production relate to the rate of photosynthesis? When Temperature decreases, Oxygen production decreases.

CO2 decreases Oxygen production decreases

Less Oxygen Production the rate of photosynthesis is slow.

Photosynthesis Lab Gizmo Questions And Answers

DJ Losen

Photosynthesis Lab Gizmo Questions And Answers:

Creating Project-Based STEM Environments Jennifer Wilhelm, Ronald Wilhelm, Merryn Cole, 2019-02-05 This book models project based environments that are intentionally designed around the United States Common Core State Standards CCSS 2010 for Mathematics the Next Generation Science Standards NGSS Lead States 2013 for Science and the National Educational Technology Standards ISTE 2008 The primary purpose of this book is to reveal how middle school STEM classrooms can be purposefully designed for 21st Century learners and provide evidence regarding how situated learning experiences will result in more advanced learning This Project Based Instruction PBI resource illustrates how to design and implement interdisciplinary project based units based on the REAL Realistic Explorations in Astronomical Learning Unit 1 and CREATES Chemical Reactions Engineered to Address Thermal Energy Situations Unit 2 The content of the book details these two PBI units with authentic student work explanations and research behind each lesson including misconceptions students might hold regarding STEM content pre post research results of unit implementation with over 40 teachers and thousands of students In addition to these two units there are chapters describing how to design one s own research based PBI units incorporating teacher commentaries regarding strategies obstacles overcome and successes as they designed and implemented their PBI units for the first time after learning how to create PBI STEM Environments the REAL way

New Scientist ,2006

Immerse yourself in heartwarming tales of love and emotion with is touching creation, Tender Moments: **Photosynthesis Lab Gizmo Questions And Answers**. This emotionally charged ebook, available for download in a PDF format (*), is a celebration of love in all its forms. Download now and let the warmth of these stories envelop your heart.

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