



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** ($C_6H_{12}O_6$) 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?

Those Oxygen Bubbles

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?

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?

When Temperature decreases, Oxygen production decreases.

- B. How does CO₂ level affect oxygen production?

CO2 decreases Oxygen production decreases

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

Less Oxygen Production the rate of photosynthesis is slow.

Photosynthesis Lab Gizmo Answers

Nadia Higgins

A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the author's name.

Photosynthesis Lab Gizmo Answers:

Plant Pigments and Photosynthesis, 2005 *Experiment with Photosynthesis* Nadia Higgins, 2015 Step by step instructions help readers explore science concepts and analyze information about photosynthesis

Reviewing **Photosynthesis Lab Gizmo Answers**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Photosynthesis Lab Gizmo Answers**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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