



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?

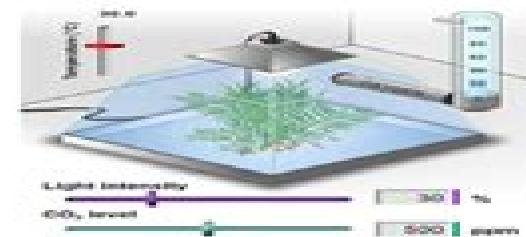
When Temperature decreases, Oxygen production decreases.

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.



Answer Key To Photosynthesis Lab Gizmo

Marcel A. Müller

Answer Key To Photosynthesis Lab Gizmo:

Whispering the Techniques of Language: An Emotional Quest through **Answer Key To Photosynthesis Lab Gizmo**

In a digitally-driven earth where monitors reign supreme and immediate interaction drowns out the subtleties of language, the profound techniques and emotional subtleties hidden within words frequently move unheard. However, nestled within the pages of **Answer Key To Photosynthesis Lab Gizmo** a charming literary treasure pulsing with fresh thoughts, lies an exceptional quest waiting to be undertaken. Penned by a talented wordsmith, this wonderful opus encourages readers on an introspective trip, softly unraveling the veiled truths and profound impact resonating within the cloth of each word. Within the psychological depths of the moving evaluation, we will embark upon a sincere exploration of the book's key subjects, dissect its interesting publishing fashion, and fail to the strong resonance it evokes serious within the recesses of readers' hearts.

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