



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?

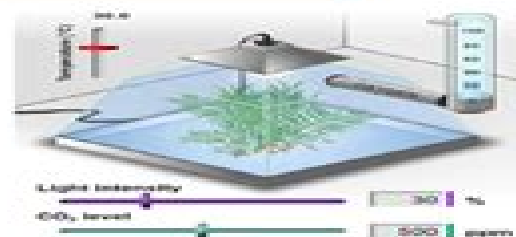
Oxygen

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.

Answers For Student Exploration Photosynthesis Lab Gizmo

**Jennifer Wilhelm, Ronald
Wilhelm, Merryn Cole**



Answers For Student Exploration Photosynthesis Lab Gizmo:

Decoding **Answers For Student Exploration Photosynthesis Lab Gizmo**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Answers For Student Exploration Photosynthesis Lab Gizmo**," a mesmerizing literary creation penned with a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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