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## Student Exploration: Photosynthesis Lab

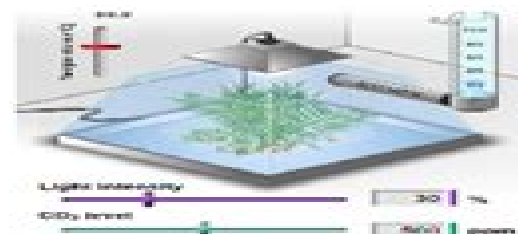
**Directions:** Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

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

### 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?

Oxygen

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?

It gives it more energy to photosynthesize.

3. Experiment with the vertical **Temperature** slider (upper left) and the **CO<sub>2</sub> level** slider.

A. How does temperature affect oxygen production?

More temperature, more oxygen.

B. How does CO<sub>2</sub> level affect oxygen production?

CO<sub>2</sub> gets changed into oxygen, the more CO<sub>2</sub> the more oxygen.

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

The more a plant photosynthesizes the

# Photosynthesis Lab Explore Learning Answers

**Andrew Davis, Patricia Deo**



## **Photosynthesis Lab Explore Learning Answers:**

## Reviewing **Photosynthesis Lab Explore Learning 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 Explore Learning Answers**," an enthralling opus penned by a highly 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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