

Name: _____

Date: _____

Student Exploration: Photosynthesis Lab

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? _____

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? _____
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?

3. Experiment with the vertical **Temperature** slider (upper left) and the horizontal **CO₂** 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? _____

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