

Student Exploration: Photosynthesis Lab

GREEN HIGHLIGHTS indicate when you run the Gizmos.

YELLOW HIGHLIGHTS indicate you must respond to a question.

AQUA HIGHLIGHTS ARE OPTIONAL ENRICHMENT (Extra Credit) Activity.

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?** _____ oxygen _____
- **EXPLAIN** where this gas is 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. Look at the plant in the left pane of the Gizmos. Observe the plant closely. **What do you think the bubbles are?** _____ oxygen _____ **Explain** why you think that: _____
because when plant get sunlight it evaporate.
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 (read the oxygen flow on the right panel)?

3. **Experiment with the vertical Temperature slider (upper left) and the CO₂ level slider.**
 - A. **How does temperature affect oxygen production** ("When temperature increases, oxygen..." "When temperature decreases, oxygen...")? _____
 - B. **How does CO₂ level affect oxygen production** ("When CO₂ increases, oxygen..." "When CO₂ decreases, oxygen...")? _____

Gizmo Photosynthesis Lab Answers

DP Hallahan



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