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.

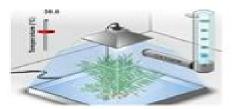
Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

- 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 (C₀H₁₂O₀) from carbon dioxide (CO₂). and water (H2O). 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.



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 plan't get sunlight it evaporate.

- 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)?
- 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...")?



Virtual Lab Exploration Guide

Olivier Pourret, Patrick Na¿m, Bruce Marcot **Virtual Lab Exploration Guide:**

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