Photosynthesis Lab

Answer Key

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

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

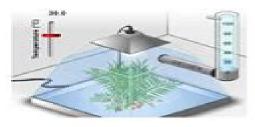
[Note: The purpose of these questions is to activate prior knowledge and get students thinking. Students are not expected to know the answers to the Prior Knowledge Questions.]

- To survive, what gas do we need to breathe in? Oxygen
- Where is this gas produced? In plants

Gizmo Warm-up

During photosynthesis, plants use the energy of light to produce glucose ($C_0H_{12}O_0$) 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.



- Observe the left pane closely. What do you think the bubbles are? Oxygen
- 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?

Up to 40%, increasing the light intensity increases the oxygen production. Beyond 40% there is no effect.

- Experiment with the vertical Temperature slider (upper left) and the CO₂ level slider.
 - A. How does temperature affect oxygen production?
 Oxygen production is maximized around 25 °C. Oxygen production goes down when temperature is too hot or too cold.
 - B. How does CO₂ level affect oxygen production?
 Up to about 300–400 ppm, increasing CO₂ production increases oxygen production.
 Beyond about 400 ppm, there is no change in oxygen production as CO₂ level is increased.
 - C. How does oxygen production relate to the rate of photosynthesis? A greater flow of oxygen corresponds to a higher rate of photosynthesis.



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