

## 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** ( $C_6H_{12}O_6$ ) 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?

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

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

*Up to about 300–400 ppm, increasing CO<sub>2</sub> production increases oxygen production. Beyond about 400 ppm, there is no change in oxygen production as CO<sub>2</sub> 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.*

# Exploration Sheet Answer Key Photosynthesis

**D Siedentop**



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