



Name:

Date:

## Student Exploration: Photosynthesis Lab

**Directions:** Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

**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?

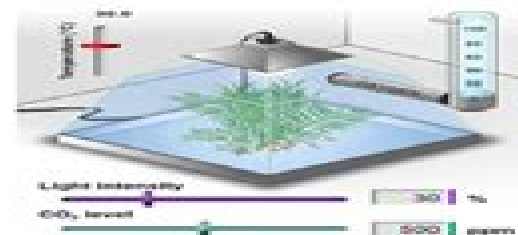
Oxygen

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?

Those Oxygen Bubbles

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?

Oxygen production decreases with reduced light intensity.

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

A. How does temperature affect oxygen production?

When Temperature decreases, Oxygen production decreases.

B. How does CO<sub>2</sub> level affect oxygen production?

CO2 decreases Oxygen production decreases

C. How does oxygen production relate to the rate of photosynthesis?

Less Oxygen Production the rate of photosynthesis is slow.

# Teachers Exploration Photosynthesis Lab Gizmo Answers

**Annelies Wilder-Smith**



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