

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Student Exploration: Photosynthesis Lab

**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? \_\_\_\_\_

### 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? \_\_\_\_\_
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?  
\_\_\_\_\_
3. Experiment with the vertical **Temperature** slider (upper left) and the horizontal **CO<sub>2</sub>** slider.
  - A. How does temperature affect oxygen production? \_\_\_\_\_  
\_\_\_\_\_
  - B. How does CO<sub>2</sub> level affect oxygen production? \_\_\_\_\_  
\_\_\_\_\_
  - C. How does oxygen production relate to the rate of photosynthesis? \_\_\_\_\_  
\_\_\_\_\_

# Explore Learning Student Exploration Photosynthesis Lab Answers

**David J. WEINER**



**Explore Learning Student Exploration Photosynthesis Lab Answers:**

## Unveiling the Magic of Words: A Review of "**Explore Learning Student Exploration Photosynthesis Lab Answers**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Explore Learning Student Exploration Photosynthesis Lab Answers**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound affect on the souls of its readers.

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