

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 **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.

Explore Learning Student Exploration Photosynthesis Lab Answer Key

TD Snyder



Explore Learning Student Exploration Photosynthesis Lab Answer Key:

Explore Learning Student Exploration Photosynthesis Lab Answer Key Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the energy of words has become more evident than ever. They have the capability to inspire, provoke, and ignite change. Such may be the essence of the book **Explore Learning Student Exploration Photosynthesis Lab Answer Key**, a literary masterpiece that delves deep to the significance of words and their impact on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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