

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?

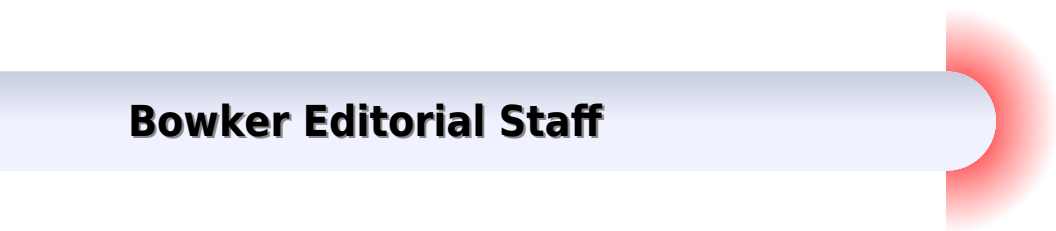
Up to about 300–400 ppm, increasing CO₂ production increases oxygen production. Beyond about 400 ppm, there is no change in oxygen production as CO₂ level is increased.

- 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

Bowker Editorial Staff



Explore Learning Student Exploration Photosynthesis Lab Answer Key:

Whispering the Techniques of Language: An Emotional Journey through **Explore Learning Student Exploration Photosynthesis Lab Answer Key**

In a digitally-driven earth where screens reign great and immediate connection drowns out the subtleties of language, the profound secrets and mental nuances concealed within words usually get unheard. Yet, nestled within the pages of **Explore Learning Student Exploration Photosynthesis Lab Answer Key** a interesting fictional treasure pulsing with raw feelings, lies an exceptional journey waiting to be undertaken. Penned by an experienced wordsmith, that enchanting opus attracts readers on an introspective trip, gently unraveling the veiled truths and profound impact resonating within the very cloth of each word. Within the emotional depths with this poignant evaluation, we can embark upon a genuine exploration of the book is core themes, dissect its captivating writing type, and yield to the strong resonance it evokes heavy within the recesses of readers hearts.

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