

Student Exploration: Photosynthesis Lab

By Nidhi Karavadra

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.



- Observe the left pane closely. What do you think the bubbles are?
 - Oxygen gas.
- 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?
 - As light intensity decreases oxygen production decreases and when the light intensity increases the production of oxygen increases too however after a certain % of light intensity (38%) oxygen produced stays the same.
- Experiment with the vertical **Temperature** slider (upper left) and the **CO₂ level** slider.
 - How does temperature affect oxygen production?
 - As the temperature increases the oxygen production increase however after 28 degrees the production of oxygen starts to fall.
 - How does CO₂ level affect oxygen production?
 - As CO₂ level rise oxygen production increase however after 360 ppm oxygen produced stays the same
 - How does oxygen production relate to the rate of photosynthesis?
 - The higher the rate of photosynthesis is, the higher is oxygen production.
 - What is the formula for photosynthesis?
 - $6CO_2 + 6H_2O \rightarrow C_6H_{12}O_6 + 6O_2$

Activity A:

Colored light

Get the Gizmo ready:

- Select the **COLOR** tab and the **BAR CHART** tab.
- Set the **Temperature** to 24°C, the **Light intensity** to 90%, and the **CO₂ level** to 1,000 ppm.



Introduction: Plants use a green pigment called **chlorophyll** to absorb light and convert its energy into a form that the plant can use. Chlorophyll gives plants their green color.

Answers For Student Exploration Photosynthesis Lab

Gita Chadha,Renny Thomas



Answers For Student Exploration Photosynthesis Lab:

Answers For Student Exploration Photosynthesis Lab Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Answers For Student Exploration Photosynthesis Lab**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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Answers For Student Exploration Photosynthesis Lab Introduction

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