

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

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Answers For Student Exploration Photosynthesis Lab:

Unveiling the Power of Verbal Artistry: An Psychological Sojourn through **Answers For Student Exploration Photosynthesis Lab**

In a world inundated with displays and the cacophony of quick connection, the profound power and psychological resonance of verbal beauty frequently diminish into obscurity, eclipsed by the continuous onslaught of sound and distractions. However, nestled within the lyrical pages of **Answers For Student Exploration Photosynthesis Lab**, a interesting work of fictional splendor that impulses with raw emotions, lies an memorable journey waiting to be embarked upon. Published by a virtuoso wordsmith, this exciting opus books visitors on an emotional odyssey, lightly revealing the latent possible and profound impact stuck within the elaborate internet of language. Within the heart-wrenching expanse of the evocative analysis, we shall embark upon an introspective exploration of the book is key styles, dissect its captivating writing style, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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