

## 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 **CO<sub>2</sub> 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 CO<sub>2</sub> level affect oxygen production?
    - As CO<sub>2</sub> 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 **CO<sub>2</sub> 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.

# Student Exploration Photosynthesis Lab Answer

**F Rizvi**



## **Student Exploration Photosynthesis Lab Answer:**

## **Student Exploration Photosynthesis Lab Answer** Book Review: Unveiling the Magic of Language

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

<https://letsgetcooking.org.uk/About/publication/fetch.php/ovation%20system%20manual.pdf>

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### **Student Exploration Photosynthesis Lab Answer Introduction**

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