

## 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?
    - $6CO_2 + 6H_2O \rightarrow C_6H_{12}O_6 + 6O_2$

<p><b>Activity A:</b></p> <p><b>Colored light</b></p>	<p><u>Get the Gizmo ready:</u></p> <ul style="list-style-type: none"> <li>Select the <b>COLOR</b> tab and the <b>BAR CHART</b> tab.</li> <li>Set the <b>Temperature</b> to 24°C, the <b>Light intensity</b> to 90%, and the <b>CO<sub>2</sub></b> level to 1,000 ppm.</li> </ul>	
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**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.

# Explore Learning Photosynthesis Lab Answers

**WJ Hussar**



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