

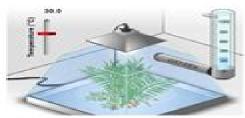
### Student Exploration: Photosynthesis Lab

By Nidhi Karayadra

#### Gizmo Warm-up

During photosynthesis, plants use the energy of light to produce glucose ( $C_0H_{12}O_0$ ) 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.
  - A. 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.
  - B. How does CO<sub>2</sub> level affect oxygen production?
  - As CO2 level rise oxygen production increase however after 360 ppm oxygen produced stays the same
  - C. How does oxygen production relate to the rate of photosynthesis?
  - The higher the rate of photosynthesis is, the higher is oxygen production.
  - D. What is the formula for photosynthesis?
  - 6CO2 + 6H2O → C6H12O6 + 6O2.

A	Get the Gizmo ready:	
Activity A:	<ul> <li>Select the COLOR tab and the BAR CHART tab.</li> </ul>	14 44 5
Colored light	<ul> <li>Set the Temperature to 24°C, the Light intensity to 90%, and the CO<sub>2</sub> level to 1,000 ppm.</li> </ul>	

Introduction: Plants use a green pigment called chlorophyll to absorb light and convectors 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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