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## Student Exploration: Photosynthesis Lab

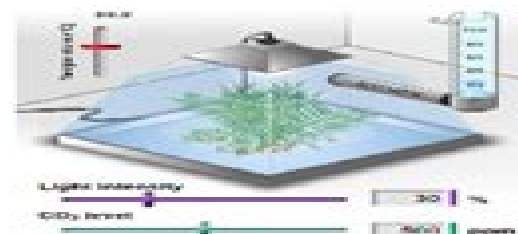
**Directions:** Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

**Vocabulary:** carbon dioxide, chlorophyll, glucose, limiting factor, nanometer, photosynthesis, wavelength

### 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.



1. Observe the left pane closely. What do you think the bubbles are?

Oxygen

2. 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?

It gives it more energy to photosynthesize.

3. Experiment with the vertical **Temperature** slider (upper left) and the **CO<sub>2</sub> level** slider.

A. How does temperature affect oxygen production?

More temperature, more oxygen.

B. How does CO<sub>2</sub> level affect oxygen production?

CO<sub>2</sub> gets changed into oxygen, the more CO<sub>2</sub> the more oxygen.

C. How does oxygen production relate to the rate of photosynthesis?

The more a plant photosynthesizes the

# Photosynthesis Lab Answers Explore Learning

**Zhe Xu**



## **Photosynthesis Lab Answers Explore Learning:**

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