

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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Table of Contents Answers For Student Exploration Photosynthesis Lab

1. Understanding the eBook Answers For Student Exploration Photosynthesis Lab
 - The Rise of Digital Reading Answers For Student Exploration Photosynthesis Lab
 - Advantages of eBooks Over Traditional Books
2. Identifying Answers For Student Exploration Photosynthesis Lab
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Answers For Student Exploration Photosynthesis Lab
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answers For Student Exploration Photosynthesis Lab
 - Personalized Recommendations
 - Answers For Student Exploration Photosynthesis Lab User Reviews and Ratings
 - Answers For Student Exploration Photosynthesis Lab and Bestseller Lists
5. Accessing Answers For Student Exploration Photosynthesis Lab Free and Paid eBooks
 - Answers For Student Exploration Photosynthesis Lab Public Domain eBooks
 - Answers For Student Exploration Photosynthesis Lab eBook Subscription Services
 - Answers For Student Exploration Photosynthesis Lab Budget-Friendly Options
6. Navigating Answers For Student Exploration Photosynthesis Lab eBook Formats

- ePub, PDF, MOBI, and More
- Answers For Student Exploration Photosynthesis Lab Compatibility with Devices
- Answers For Student Exploration Photosynthesis Lab Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answers For Student Exploration Photosynthesis Lab
 - Highlighting and Note-Taking Answers For Student Exploration Photosynthesis Lab
 - Interactive Elements Answers For Student Exploration Photosynthesis Lab
- 8. Staying Engaged with Answers For Student Exploration Photosynthesis Lab
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answers For Student Exploration Photosynthesis Lab
- 9. Balancing eBooks and Physical Books Answers For Student Exploration Photosynthesis Lab
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answers For Student Exploration Photosynthesis Lab
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Answers For Student Exploration Photosynthesis Lab
 - Setting Reading Goals Answers For Student Exploration Photosynthesis Lab
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Answers For Student Exploration Photosynthesis Lab
 - Fact-Checking eBook Content of Answers For Student Exploration Photosynthesis Lab
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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