



Name: _____

Date: _____

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

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

- To survive, what gas do we need to breathe in?
- Where is this gas produced?

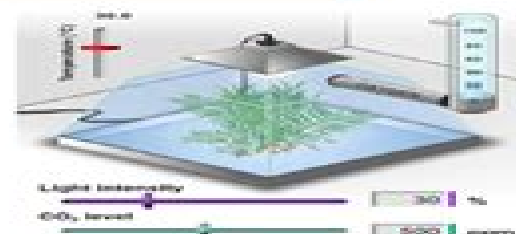
Oxygen

Plants

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?

Those Oxygen Bubbles

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?

Oxygen production decreases with reduced light intensity.

3. Experiment with the vertical **Temperature** slider (upper left) and the **CO₂ level** slider.

A. How does temperature affect oxygen production?

When Temperature decreases, Oxygen production decreases.

B. How does CO₂ level affect oxygen production?

CO2 decreases Oxygen production decreases

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

Less Oxygen Production the rate of photosynthesis is slow.

Photosynthesis Lab Gizmo Answer Key

Judd E. Hollander

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the author's name.

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Table of Contents Photosynthesis Lab Gizmo Answer Key

1. Understanding the eBook Photosynthesis Lab Gizmo Answer Key
 - The Rise of Digital Reading Photosynthesis Lab Gizmo Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Photosynthesis Lab Gizmo Answer Key
 - 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 Photosynthesis Lab Gizmo Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Photosynthesis Lab Gizmo Answer Key
 - Personalized Recommendations
 - Photosynthesis Lab Gizmo Answer Key User Reviews and Ratings
 - Photosynthesis Lab Gizmo Answer Key and Bestseller Lists
5. Accessing Photosynthesis Lab Gizmo Answer Key Free and Paid eBooks

- Photosynthesis Lab Gizmo Answer Key Public Domain eBooks
 - Photosynthesis Lab Gizmo Answer Key eBook Subscription Services
 - Photosynthesis Lab Gizmo Answer Key Budget-Friendly Options
6. Navigating Photosynthesis Lab Gizmo Answer Key eBook Formats
- ePub, PDF, MOBI, and More
 - Photosynthesis Lab Gizmo Answer Key Compatibility with Devices
 - Photosynthesis Lab Gizmo Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Photosynthesis Lab Gizmo Answer Key
 - Highlighting and Note-Taking Photosynthesis Lab Gizmo Answer Key
 - Interactive Elements Photosynthesis Lab Gizmo Answer Key
8. Staying Engaged with Photosynthesis Lab Gizmo Answer Key
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Photosynthesis Lab Gizmo Answer Key
9. Balancing eBooks and Physical Books Photosynthesis Lab Gizmo Answer Key
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Photosynthesis Lab Gizmo Answer Key
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Photosynthesis Lab Gizmo Answer Key
- Setting Reading Goals Photosynthesis Lab Gizmo Answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Photosynthesis Lab Gizmo Answer Key
- Fact-Checking eBook Content of Photosynthesis Lab Gizmo Answer Key
 - 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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