



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 Key

Nadia Higgins

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

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Table of Contents Photosynthesis Lab Gizmo Key

1. Understanding the eBook Photosynthesis Lab Gizmo Key
 - The Rise of Digital Reading Photosynthesis Lab Gizmo Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Photosynthesis Lab Gizmo 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 Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Photosynthesis Lab Gizmo Key

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

- Fact-Checking eBook Content of Photosynthesis Lab Gizmo 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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