



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?

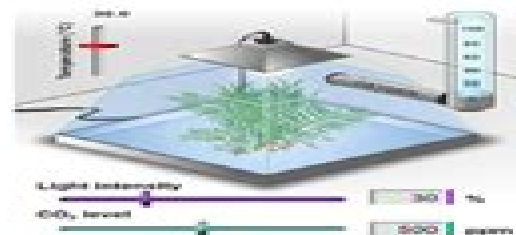
Oxygen

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.

Gizmo Photosynthesis Lab Answers

G Thomas

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the 'G Thomas' text.

Gizmo Photosynthesis Lab Answers:
Plant Pigments and Photosynthesis ,2005

Uncover the mysteries within is enigmatic creation, **Gizmo Photosynthesis Lab Answers** . This downloadable ebook, shrouded in suspense, is available in a PDF format (*). Dive into a world of uncertainty and anticipation. Download now to unravel the secrets hidden within the pages.

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Table of Contents Gizmo Photosynthesis Lab Answers

1. Understanding the eBook Gizmo Photosynthesis Lab Answers
 - The Rise of Digital Reading Gizmo Photosynthesis Lab Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Gizmo Photosynthesis Lab Answers
 - 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 Gizmo Photosynthesis Lab Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Gizmo Photosynthesis Lab Answers
 - Personalized Recommendations
 - Gizmo Photosynthesis Lab Answers User Reviews and Ratings
 - Gizmo Photosynthesis Lab Answers and Bestseller Lists
5. Accessing Gizmo Photosynthesis Lab Answers Free and Paid eBooks
 - Gizmo Photosynthesis Lab Answers Public Domain eBooks
 - Gizmo Photosynthesis Lab Answers eBook Subscription Services
 - Gizmo Photosynthesis Lab Answers Budget-Friendly Options
6. Navigating Gizmo Photosynthesis Lab Answers eBook Formats

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