



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.

Gizmos Photosynthesis Lab Answers

Léo Pomar

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.

Gizmos Photosynthesis Lab Answers:
Plant Pigments and Photosynthesis ,2005

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Table of Contents Gizmos Photosynthesis Lab Answers

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

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