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?

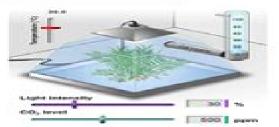
Oxygen

Plants.

Gizmo Warm-up

During **photosynthesis**, plants use the energy of light to produce **glucose** $(C_0H_{12}O_0)$ 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?

Those Oxygen Bubbles

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.

Teachers Exploration Photosynthesis Lab Gizmo Answers

J Elliott

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Table of Contents Teachers Exploration Photosynthesis Lab Gizmo Answers

- 1. Understanding the eBook Teachers Exploration Photosynthesis Lab Gizmo Answers
 - The Rise of Digital Reading Teachers Exploration Photosynthesis Lab Gizmo Answers
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Teachers Exploration Photosynthesis Lab Gizmo 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 Teachers Exploration Photosynthesis Lab Gizmo Answers
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Teachers Exploration Photosynthesis Lab Gizmo Answers
 - Personalized Recommendations
 - Teachers Exploration Photosynthesis Lab Gizmo Answers User Reviews and Ratings
 - Teachers Exploration Photosynthesis Lab Gizmo Answers and Bestseller Lists

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