

Name: _____

Date: _____

Student Exploration: Photosynthesis Lab

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? _____

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? _____

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?

3. Experiment with the vertical **Temperature** slider (upper left) and the **CO₂ level** slider.
 - A. How does temperature affect oxygen production? _____

 - B. How does CO₂ level affect oxygen production? _____

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

Student Exploration Photosynthesis Lab Answers Pdf

AW Rasmussen



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Table of Contents Student Exploration Photosynthesis Lab Answers Pdf

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

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