

Student Exploration: Photosynthesis Lab

GREEN HIGHLIGHTS indicate when you run the Gizmos.

YELLOW HIGHLIGHTS indicate you must respond to a question.

AQUA HIGHLIGHTS ARE OPTIONAL ENRICHMENT (Extra Credit) Activity.

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?** _____ oxygen _____
- **EXPLAIN** where this gas is 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. Look at the plant in the left pane of the Gizmos. Observe the plant closely. **What do you think the bubbles are?** _____ oxygen _____ **Explain** why you think that: _____
because when plant get sunlight it evaporate.
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 (read the oxygen flow on the right panel)?

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

Explore Learning Student Exploration Photosynthesis Lab Answers

RD Boyd



Explore Learning Student Exploration Photosynthesis Lab Answers:

The Enigmatic Realm of **Explore Learning Student Exploration Photosynthesis Lab Answers**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Explore Learning Student Exploration Photosynthesis Lab Answers** a literary masterpiece penned by a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of people who partake in its reading experience.

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Table of Contents Explore Learning Student Exploration Photosynthesis Lab Answers

1. Understanding the eBook Explore Learning Student Exploration Photosynthesis Lab Answers
 - The Rise of Digital Reading Explore Learning Student Exploration Photosynthesis Lab Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Explore Learning Student Exploration 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 Explore Learning Student Exploration Photosynthesis Lab Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Explore Learning Student Exploration Photosynthesis Lab Answers

Explore Learning Student Exploration Photosynthesis Lab Answers

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

- Fact-Checking eBook Content of Explore Learning Student Exploration 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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