

Photosynthesis Lab

Answer Key

Vocabulary: carbon dioxide, chlorophyll, glucose, limiting factor, nanometer, photosynthesis, wavelength

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

[Note: The purpose of these questions is to activate prior knowledge and get students thinking. Students are not expected to know the answers to the Prior Knowledge Questions.]

- To survive, what gas do we need to breathe in? *Oxygen*
- Where is this gas produced? *In 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? *Oxygen*
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?

Up to 40%, increasing the light intensity increases the oxygen production. Beyond 40% there is no effect.

3. Experiment with the vertical **Temperature** slider (upper left) and the **CO₂ level** slider.

- A. How does temperature affect oxygen production?

Oxygen production is maximized around 25°C. Oxygen production goes down when temperature is too hot or too cold.

- B. How does CO₂ level affect oxygen production?

Up to about 300–400 ppm, increasing CO₂ production increases oxygen production. Beyond about 400 ppm, there is no change in oxygen production as CO₂ level is increased.

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

A greater flow of oxygen corresponds to a higher rate of photosynthesis.

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Table of Contents Photosynthesis Lab Student Gizmo Key

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

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