



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 **CO<sub>2</sub> level** slider.

A. How does temperature affect oxygen production?

When Temperature decreases, Oxygen production decreases.

B. How does CO<sub>2</sub> level affect oxygen production?

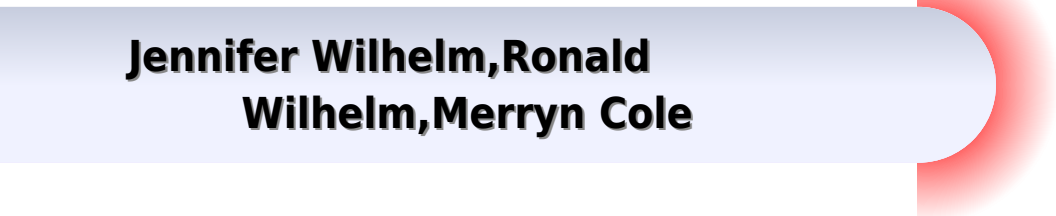
CO2 decreases Oxygen production decreases

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

Less Oxygen Production the rate of photosynthesis is slow.

# Answers For Gizmo Photosynthesis Lab

**Jennifer Wilhelm, Ronald  
Wilhelm, Merryn Cole**



### **Answers For Gizmo Photosynthesis Lab:**

*Creating Project-Based STEM Environments* Jennifer Wilhelm, Ronald Wilhelm, Merryn Cole, 2019-02-05 This book models project based environments that are intentionally designed around the United States Common Core State Standards CCSS 2010 for Mathematics the Next Generation Science Standards NGSS Lead States 2013 for Science and the National Educational Technology Standards ISTE 2008 The primary purpose of this book is to reveal how middle school STEM classrooms can be purposefully designed for 21st Century learners and provide evidence regarding how situated learning experiences will result in more advanced learning This Project Based Instruction PBI resource illustrates how to design and implement interdisciplinary project based units based on the REAL Realistic Explorations in Astronomical Learning Unit 1 and CREATES Chemical Reactions Engineered to Address Thermal Energy Situations Unit 2 The content of the book details these two PBI units with authentic student work explanations and research behind each lesson including misconceptions students might hold regarding STEM content pre post research results of unit implementation with over 40 teachers and thousands of students In addition to these two units there are chapters describing how to design one s own research based PBI units incorporating teacher commentaries regarding strategies obstacles overcome and successes as they designed and implemented their PBI units for the first time after learning how to create PBI STEM Environments the REAL way Plant Pigments and Photosynthesis ,2005

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## **Table of Contents Answers For Gizmo Photosynthesis Lab**

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

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

### **Answers For Gizmo Photosynthesis Lab Introduction**

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