



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 **CO₂ level** slider.

A. How does temperature affect oxygen production?

When Temperature decreases, Oxygen production decreases.

B. How does CO₂ level affect oxygen production?

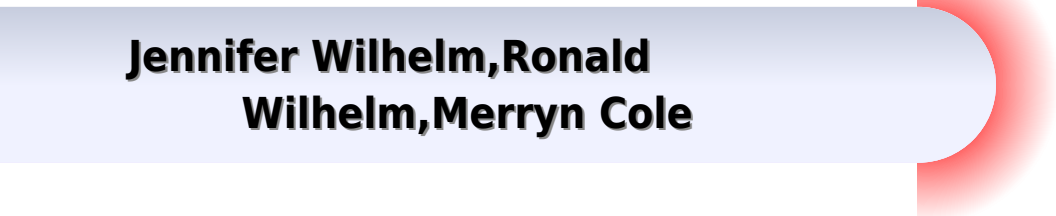
CO2 decreases Oxygen production decreases

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

Less Oxygen Production the rate of photosynthesis is slow.

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

This book delves into Answers For Gizmo Photosynthesis Lab. Answers For Gizmo Photosynthesis Lab is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Answers For Gizmo Photosynthesis Lab, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Answers For Gizmo Photosynthesis Lab
 - Chapter 2: Essential Elements of Answers For Gizmo Photosynthesis Lab
 - Chapter 3: Answers For Gizmo Photosynthesis Lab in Everyday Life
 - Chapter 4: Answers For Gizmo Photosynthesis Lab in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, this book will provide an overview of Answers For Gizmo Photosynthesis Lab. The first chapter will explore what Answers For Gizmo Photosynthesis Lab is, why Answers For Gizmo Photosynthesis Lab is vital, and how to effectively learn about Answers For Gizmo Photosynthesis Lab.
 3. In chapter 2, the author will delve into the foundational concepts of Answers For Gizmo Photosynthesis Lab. The second chapter will elucidate the essential principles that must be understood to grasp Answers For Gizmo Photosynthesis Lab in its entirety.
 4. In chapter 3, this book will examine the practical applications of Answers For Gizmo Photosynthesis Lab in daily life. The third chapter will showcase real-world examples of how Answers For Gizmo Photosynthesis Lab can be effectively utilized in everyday scenarios.
 5. In chapter 4, the author will scrutinize the relevance of Answers For Gizmo Photosynthesis Lab in specific contexts. This chapter will explore how Answers For Gizmo Photosynthesis Lab is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, this book will draw a conclusion about Answers For Gizmo Photosynthesis Lab. The final chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Answers For Gizmo Photosynthesis Lab.

<https://legacy.tortoisemedia.com/data/publication/Documents/gardening%20tips%20readers%20choice.pdf>

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Answers For Gizmo Photosynthesis Lab Introduction

In this digital age, the convenience of accessing information at our fingertips has become a necessity. Whether its research papers, eBooks, or user manuals, PDF files have become the preferred format for sharing and reading documents. However, the cost associated with purchasing PDF files can sometimes be a barrier for many individuals and organizations. Thankfully, there are numerous websites and platforms that allow users to download free PDF files legally. In this article, we will explore some of the best platforms to download free PDFs. One of the most popular platforms to download free PDF files is Project

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