



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?

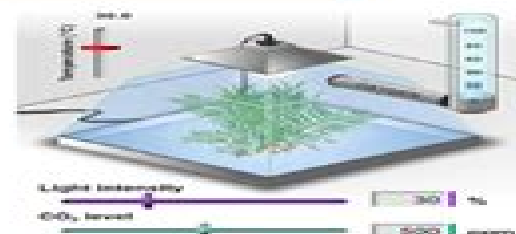
Oxygen

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.

Photosynthesis Lab Gizmo Answers

Nadia Higgins

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Photosynthesis Lab Gizmo Answers:

Plant Pigments and Photosynthesis ,2005 *Experiment with Photosynthesis* Nadia Higgins,2015 Step by step instructions help readers explore science concepts and analyze information about photosynthesis

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

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Photosynthesis Lab Gizmo Answers
 - Chapter 2: Essential Elements of Photosynthesis Lab Gizmo Answers
 - Chapter 3: Photosynthesis Lab Gizmo Answers in Everyday Life
 - Chapter 4: Photosynthesis Lab Gizmo Answers in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of Photosynthesis Lab Gizmo Answers. The first chapter will explore what Photosynthesis Lab Gizmo Answers is, why Photosynthesis Lab Gizmo Answers is vital, and how to effectively learn about Photosynthesis Lab Gizmo Answers.
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 5. In chapter 4, this book will scrutinize the relevance of Photosynthesis Lab Gizmo Answers in specific contexts. The fourth chapter will explore how Photosynthesis Lab Gizmo Answers is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Photosynthesis Lab Gizmo Answers. The final chapter will summarize the key points that have been discussed throughout the book.
- The 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 Photosynthesis Lab Gizmo Answers.

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Photosynthesis Lab Gizmo Answers Introduction

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