



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?

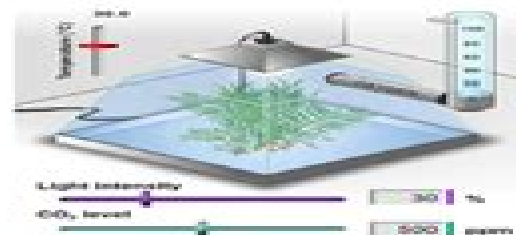
Oxygen

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 Answer Sheet

RC Schank

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

Photosynthesis Lab Gizmo Answer Sheet:

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

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Photosynthesis Lab Gizmo Answer Sheet
 - Chapter 2: Essential Elements of Photosynthesis Lab Gizmo Answer Sheet
 - Chapter 3: Photosynthesis Lab Gizmo Answer Sheet in Everyday Life
 - Chapter 4: Photosynthesis Lab Gizmo Answer Sheet in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, the author will provide an overview of Photosynthesis Lab Gizmo Answer Sheet. This chapter will explore what Photosynthesis Lab Gizmo Answer Sheet is, why Photosynthesis Lab Gizmo Answer Sheet is vital, and how to effectively learn about Photosynthesis Lab Gizmo Answer Sheet.
3. In chapter 2, this book will delve into the foundational concepts of Photosynthesis Lab Gizmo Answer Sheet. This chapter will elucidate the essential principles that need to be understood to grasp Photosynthesis Lab Gizmo Answer Sheet in its entirety.
4. In chapter 3, the author will examine the practical applications of Photosynthesis Lab Gizmo Answer Sheet in daily life. This chapter will showcase real-world examples of how Photosynthesis Lab Gizmo Answer Sheet can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Photosynthesis Lab Gizmo Answer Sheet in specific contexts. The fourth chapter will explore how Photosynthesis Lab Gizmo Answer Sheet is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Photosynthesis Lab Gizmo Answer Sheet. This 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 Answer Sheet.

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 $\text{H}_2\text{O}(\text{g}) \rightarrow \text{H}_2(\text{g}) + \frac{1}{2} \text{O}_2(\text{g}) \quad \Delta h = 71.2 \text{ kJ}$
 $\text{C}_2\text{H}_6(\text{g}) + \frac{7}{2} \text{O}_2(\text{g}) \rightarrow \text{CO}_2(\text{g}) + 3 \text{H}_2\text{O}(\text{g}) \quad \Delta h = 283 \text{ kJ}$

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 $\text{C}_2\text{H}_4(\text{g}) + 3 \text{O}_2(\text{g}) \rightarrow 2 \text{CO}_2(\text{g}) + 2 \text{H}_2\text{O}(\text{l}) \quad \Delta h = 1411 \text{ kJ/mole}$
 $\text{C}_2\text{H}_6(\text{g}) + 7/2 \text{O}_2(\text{g}) \rightarrow 2 \text{CO}_2(\text{g}) + 3 \text{H}_2\text{O}(\text{l}) \quad \Delta h = 1560 \text{ kJ/mole}$
 $\text{H}_2(\text{g}) + 1/2 \text{O}_2(\text{g}) \rightarrow \text{H}_2\text{O}(\text{l}) \quad \Delta h = 285 \text{ kJ/mole}$

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web thus for reaction 9 2 in which 1 mole of H_2SO_4 and 1 mole of NaOH combine to form 2 moles of H_2O h 55.8 kJ as shown note that the enthalpy change $\Delta h_{\text{products}} - \Delta h_{\text{reactants}}$ is positive if heat is absorbed that is if $\Delta h_{\text{products}}$

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