



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?

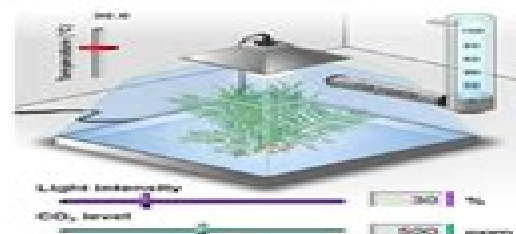
Oxygen

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.

Student Eploration Photosynthesis Lab Answer

Lingjun Ying



Student Exploration Photosynthesis Lab Answer:

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

Chapter Resource 5 Photosynthesis/Cell Response Biology Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 *Resources in Education*, 1990 *The American Biology Teacher*, 2000 Carolina Science and Math Carolina Biological Supply Company, 2003 *Effective Use of Active Learning Applications* Meryem Nur Aydede Yalçın, 2020-01-20 In modern education approach development in the modern science and technology is directly related with the getting a success on the science education is accepted So all societies should be able to develop understand and use the technology and each person in the society should be literate of the science in today s world Therefore learners of educational institutions organizations should be grown having specific features like problem solving skills critical thinking creativity independence self confidence abilities As a result having these skills and abilities depend on to have a learning process which have developed perfectly In science education instead of teacher centered methodologies learner centered ones should be included This idea refers to active learning The idea is to bring together the international group to share experiences and work together in the field of effective use of active learning applications in science education arose Life Long Learning programme Leonardo da Vinci Project During the project the contact pearson of each institution Meryem Nur AYDEDE YALIN from Nigde University Turkey Elena Anghel from Training cons 2005 Romania Giuseppe DOTI from Associazione Antares Italy Vida DR SUT V eMundus Lithuania Pedro Jos LEIVA PADILLA Leiva Formacion Spain Christos NICOLAIDES Dekapulus Business Services LTD Cyprus J nos PALOT S Foundation of Knowledge Hungary Oana Cristina TURTOI Repere Association Bacau Branch Romania Danut VIZMANAIT Trak vietimo centras Lithuania discussed the lots of situations in effectiveness of

active learning in different European Regions This book brings some new views to active learning approach with the selection of the outputs of this project You can find different usage of active learning applications of seven different countries Turkey Romania Spain Italy Hungary Lithuania and Cyprus in this book **LBL Newsmagazine** ,1980 *Science Today: Problem or Crisis?* Ralph Levinson,Jeff Thomas,1997-01-02 What is science What is the purpose of science education Should we be training scientists or looking towards a greater public understanding of science In this exciting text some of the key figures in the fields of science and science education address this debate Their contributions form an original dialogue on science education and the gener **InCider** ,1992 *School Library Journal* ,2003 **Holt Biology** Rob DeSalle,Holt Rinehart and Winston,2008 Holt Biology Student Edition 2008 *THE Journal* ,1997 **Molecular Biology of the Cell** ,1996 MBC online publishes papers that describe and interpret results of original research concerning the molecular aspects of cell structure and function **Backpacker** ,2007-09 Backpacker brings the outdoors straight to the reader s doorstep inspiring and enabling them to go more places and enjoy nature more often The authority on active adventure Backpacker is the world s first GPS enabled magazine and the only magazine whose editors personally test the hiking trails camping gear and survival tips they publish Backpacker s Editors Choice Awards an industry honor recognizing design feature and product innovation has become the gold standard against which all other outdoor industry awards are measured **Link** ,2012

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The Video Source Book David J. WEINER,1990 **The Science Teacher** ,2006 **El-Hi Textbooks in Print** ,1972

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Table of Contents Student Eploration Photosynthesis Lab Answer

1. Understanding the eBook Student Eploration Photosynthesis Lab Answer
 - The Rise of Digital Reading Student Eploration Photosynthesis Lab Answer
 - Advantages of eBooks Over Traditional Books
2. Identifying Student Eploration Photosynthesis Lab Answer
 - 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 Student Eploration Photosynthesis Lab Answer
 - User-Friendly Interface
4. Exploring eBook Recommendations from Student Eploration Photosynthesis Lab Answer
 - Personalized Recommendations
 - Student Eploration Photosynthesis Lab Answer User Reviews and Ratings
 - Student Eploration Photosynthesis Lab Answer and Bestseller Lists
5. Accessing Student Eploration Photosynthesis Lab Answer Free and Paid eBooks
 - Student Eploration Photosynthesis Lab Answer Public Domain eBooks
 - Student Eploration Photosynthesis Lab Answer eBook Subscription Services
 - Student Eploration Photosynthesis Lab Answer Budget-Friendly Options
6. Navigating Student Eploration Photosynthesis Lab Answer eBook Formats
 - ePub, PDF, MOBI, and More
 - Student Eploration Photosynthesis Lab Answer Compatibility with Devices
 - Student Eploration Photosynthesis Lab Answer Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Student Eploration Photosynthesis Lab Answer
 - Highlighting and Note-Taking Student Eploration Photosynthesis Lab Answer
 - Interactive Elements Student Eploration Photosynthesis Lab Answer
8. Staying Engaged with Student Eploration Photosynthesis Lab Answer

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Student Eploration Photosynthesis Lab Answer
- 9. Balancing eBooks and Physical Books Student Eploration Photosynthesis Lab Answer
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Student Eploration Photosynthesis Lab Answer
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Student Eploration Photosynthesis Lab Answer
 - Setting Reading Goals Student Eploration Photosynthesis Lab Answer
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Student Eploration Photosynthesis Lab Answer
 - Fact-Checking eBook Content of Student Eploration Photosynthesis Lab Answer
 - 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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