

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?

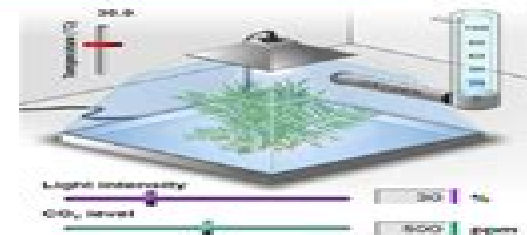
To survive, we need to breathe in oxygen.

Oxygen gas is produced in plants through photosynthesis.

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?

I think the bubbling on the left pane are bubbles of oxygen gas.

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?

As the light intensity increases, the oxygen production also increases.

3. Experiment with the vertical **Temperature** slider (upper left) and the **CO₂ level** slider.

A. How does temperature affect oxygen production?

When the temperature is below 17 or rises over 31 degrees, the oxygen production decreases. But if the temperature is between 17-31 degrees, the oxygen production will increase.

Explore Learning Photosynthesis Lab Answers

**Daniel P. Shepardson, Anita
Roychoudhury, Andrew S. Hirsch**



Explore Learning Photosynthesis Lab Answers:

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

Professor Figgy's Weather and Climate Science Lab for Kids Jim Noonan, 2022-02-15 Professor Figgy s Weather and Climate Science Lab for Kids provides 52 exciting projects and educational activities both inside and outside the home to explore the fascinating ever changing and universal subject of weather As champion of educational fun Jim Noonan aka Professor Figgy guides you through the topics of weather and climate through fun and easy activities he also teaches the importance of affecting change in the world through the lens of our climate s uncertain future With a foreword by DIY trailblazer Martha Stewart this comprehensive hands on weather and climate learning resource collects captivating activities covering subjects such as The Atmosphere Sun Clouds Wind Rain Severe Weather Pollution Climate Change Each experiment includes Easy to find Tools Materials Safety Tips Tricks Step by step How To Instructions The Science Behind the Fun And a bit of a trivia featuring people of interest historical events and facts and figures that ground the ideas in the real world and diversify the learning experience The popular Lab for Kids series features a growing list of books that share hands on activities and projects on a wide host of topics including art astronomy clay geology math and even how to create your own circus all authored by established experts in their fields Each lab contains a complete materials list clear step by step photographs of the process as well as finished samples The labs can be used as singular projects or as part of a yearlong curriculum of experiential learning The activities are open ended designed to be explored over and over often with different results Geared toward being taught or guided by adults they are enriching for a range of ages and skill levels Gain firsthand knowledge on your favorite topic with Lab for Kids *General Science Quiz & Facts Winning Tactics* Sebastian Hale,

General Science Quiz Facts Winning Tactics is your go to guide for mastering gameplay improving strategy and unlocking hidden potential Whether it s about quick decision making level progression or understanding in game mechanics this guide provides smart tips and clear insights Perfect for casual players and enthusiasts alike it helps you play smarter and enjoy more wins No matter the genre this book is designed to make your gaming experience smoother more fun and ultimately more rewarding

Ask, Explore, Write! Troy Hicks,Jeremy Hyler,Wiline Pangle,2020-02-12 Discover how to effectively incorporate literacy instruction into your middle or high school science classroom with this practical book You ll find creative inquiry based tools to show you what it means to teach science with and through writing and strategies to help your students become young scientists who can use reading and writing to better understand their world Troy Hicks Jeremy Hyler and Wiline Pangle share helpful examples of lessons and samples of students work as well as innovative strategies you can use to improve students abilities to read and write various types of scientific nonfiction including argument essays informational pieces infographics and more As all three authors come to the work of science and literacy from different perspectives and backgrounds the book offers unique and wide ranging experiences that will inspire you and offer you insights into many aspects of the classroom including when why and how reading and writing can work in the science lesson Featured topics include Debates and the current conversation around science writing in the classroom and society How to integrate science notebooks into teaching Improving nonfiction writing by expanding disciplinary vocabulary and crafting scientific arguments Incorporating visual explanations and infographics Encouraging collaboration through whiteboard modeling Professional development in science and writing The strategies are all aligned to the Next Generation Science Standards and Common Core State Standards for ease of implementation From science teachers to curriculum directors and instructional supervisors this book is essential for anyone wanting to improve interdisciplinary literacy in their school

Science Teaching/science Learning Elnora S. Harcombe,2001-01-01 Science Teaching Science Learning based on a model professional development program gives powerful proof that urban teachers can ignite curiosity and promote deep understanding in children when provided with the necessary intellectual infrastructure including a complex balance of increased science knowledge a safe environment for professional experimentation and a long term interaction with colleagues The ensuing invigoration and renewed dedication of program participants belies the inevitability of the projected national science teacher shortage Harcombe breaks new ground demonstrating that when professional teacher development is based on constructivist learning theory and framed in the knowledge domain of the sciences it empowers teachers to dramatically change what they know how they teach and what their students learn

Home Education Masterclass: The Science Lab at Home Nicole Young, Welcome to the exciting world of science This book is your passport to a thrilling adventure filled with experiments discoveries and a whole lot of fun Whether you re a parent looking for engaging activities for your children an educator supplementing classroom learning or simply a curious individual eager to explore the wonders of science this book is

designed for you Inside you ll find a collection of exciting experiments covering a wide range of scientific disciplines including chemistry biology physics and environmental science We ve carefully chosen experiments that are not only fun and educational but also safe and accessible using readily available household materials whenever possible This book is structured to guide you through the basics of setting up a home science lab ensuring safety and efficiency while encouraging a systematic approach to learning We emphasize the importance of careful observation record keeping and the application of the scientific method fostering critical thinking and problem solving skills Each chapter delves into a specific area of science introducing fundamental concepts through engaging experiments that bring abstract ideas to life We explain complex scientific processes in a clear and concise manner avoiding unnecessary jargon and using simple age appropriate language The step by step instructions are easy to follow and safety precautions are clearly highlighted throughout the book Visual aids such as illustrations and photographs are included to enhance understanding and engagement Beyond the individual experiments we encourage a spirit of inquiry and exploration guiding children to ask questions form hypotheses and analyze their results developing essential scientific skills We believe that learning should be an exciting adventure and we hope this book will ignite a lifelong passion for science in you and your children Let s embark on this incredible journey of scientific discovery together Prepare to be amazed

Teaching and Learning about Climate Change Daniel P. Shepardson, Anita Roychoudhury, Andrew S. Hirsch, 2017-02-17 Responding to the issues and challenges of teaching and learning about climate change from a science education based perspective this book is designed to serve as an aid for educators as they strive to incorporate the topic into their classes The unique discussion of these issues is drawn from the perspectives of leading and international scholars in the field The book is structured around three themes theoretical philosophical and conceptual frameworks for climate change education and research research on teaching and learning about global warming and climate change and approaches to professional development and classroom practice

Photosynthesis-Assisted Energy Generation Sathish-Kumar Kamaraj, Iryna Rusyn, 2024-02-06 Photosynthesis Assisted Energy Generation Describes the mechanisms of and potential for using microorganisms and plants as renewable power resources Bridging the knowledge gap between the fundamentals and the technological advances in biological photosynthesis assisted energy generation Photosynthesis Assisted Energy Generation explores the various diverse light harvesting biological systems for electricity generation and explains the fundamentals and applications from lab scale to in field The text discusses the fundamentals of electron transfer mechanisms in photosynthetic systems basic principles of bioelectricity generation and materials involved in the construction of fuel cells including not only the impact of higher plants but also anoxygenic and oxygenic photosynthetic bacteria and microalgae on the performance of photosynthesis assisted power generation systems A timely resource the text features case studies on emerging topics such as mosses in power generation on green roofs and photo bioelectrochemical fuel cells for antibiotics and dyes removal along with discussion of sustainability issues when scaling up

bio photo electrochemical systems Edited by two highly qualified and accomplished academics with significant research experience in the field Photosynthesis Assisted Energy Generation includes information on Role of functional materials involved in photosynthesis assisted power generation and non noble electrocatalysts as air cathodes in biocells Electricity generation and intensified synthesis of nutrients by plant based biofuel cells using duckweeds as biocatalysts Algae based microbial fuel cells photosynthetic bacteria based microbial fuel cells and bryophyte microbial fuel cell systems Progress and recent trends of application of low energy consuming devices and IoT based on photosynthesis assisted power generation Plant based microbial fuel cells for bioremediation biosensing and plant health monitoring With full coverage of an attractive renewable energy generation system Photosynthesis Assisted Energy Generation is an essential resource on the subject for researchers and scientists interested in alternative renewable energetics and photosynthesis assisted energy generation processes utilizing microorganisms algae plants and other bioinspired materials **Prentice Hall Science Explorer: Teacher's ed** ,2005 **Student Centered Investigative Labs for Middle School Science** Walter L. Saunders,2003-06 This resource book is intended for experienced middle school science teachers who are seeking ways to incorporate a more student centered approach to investigative lab activities New teachers can also benefit from this manual This resource book is based upon a teaching philosophy known as the Learning Cycle In the Learning Cycle LC model of teaching science students work together in groups of three or four with limited teacher guidance to develop lab procedures for the investigation of questions which can be studied in the laboratory or field **Annual Report for Fiscal Year ...** National Science Foundation (U.S.),1975 Bulletin of the Atomic Scientists ,1972-12 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin's iconic Doomsday Clock stimulates solutions for a safer world The Nonfiction Now Lesson Bank, Grades 4-8 Nancy Akhavan,2014-02-04 What exactly makes The Nonfiction NOW Lesson Bank such a stand out If you consider the amount of instructional support that alone is substantial enough to transform your teaching But Nancy Akhavan happens to be an educator who has performed many roles over her career so she divests in this book just about everything in her professional vault A whole new vision of teaching nonfiction 50 powerhouse lessons A bank of short informational texts Dozens of student practice activities Graphic organizers for taming textbooks Unlike so many books this one will live its life in actual use dog eared sticky noted and loved **Science Curriculum Topic Study** Page Keeley,2005-02-23 This indispensable staff development resource provides a systematic professional development strategy linking science standards and research to curriculum instruction and assessment *Fuel for Thought* Steve Metz,2011 The concept of energy is central to all the science disciplines seamlessly connecting science technology and mathematics For high school and upper middle school teachers this compendium comprises inquiry based activities lesson plans and case studies designed to help teach increased awareness of energy environmental concepts and the related issues *Fostering Understanding of Complex*

Systems in Biology Education Orit Ben Zvi Assaraf, Marie-Christine P. J. Knippels, 2022-05-25 This book synthesizes a wealth of international research on the critical topic of fostering understanding of complex systems in biology education Complex systems are prevalent in many scientific fields and at all scales from the micro scale of a single cell or molecule to complex systems at the macro scale such as ecosystems Understanding the complexity of natural systems can be extremely challenging though crucial for an adequate understanding of what they are and how they work The term systems thinking has become synonymous with developing a coherent understanding of complex biological processes and phenomena For researchers and educators alike understanding how students systems thinking develops is an essential prerequisite to develop and maintain pedagogical scaffolding that facilitates students ability to fully understand the system s complexity To that end this book provides researchers and teachers with key insights from the current research community on how to support learners systems thinking in secondary and higher education Each chapter in the book elaborates on different theoretical and methodological frameworks pertaining to complexity in biology education and a variety of biological topics are included from genetics photosynthesis and the carbon cycle to ecology and climate change Specific attention is paid to design elements of computer based learning environments to understand complexity in biology education **Discover**, 2001

Handbook of Research on Science Literacy Integration in Classroom Environments Tai, Chih-Che, Moran, Renee M. R., Robertson, Laura, Keith, Karin, Hong, Huili, 2018-10-12 Secondary schools are continually faced with the task of preparing students for a world that is more connected advanced and globalized than ever before In order to adequately prepare students for their future educators must provide them with strong reading and writing skills as well as the ability to understand scientific concepts The Handbook of Research on Science Literacy Integration in Classroom Environments is a pivotal reference source that provides vital research on the importance of cross curriculum discipline connections in improving student understanding and education While highlighting topics such as curriculum integration online learning and instructional coaching this publication explores practices in teaching students how to analyze and interpret data as well as reading writing and speaking This book is ideally designed for teachers graduate level students academicians instructional designers administrators and education researchers seeking current research on science literacy adoption in contemporary classrooms Directory of Distance Learning Opportunities Modoc Press, Inc., 2003-02-28 This book provides an overview of current K 12 courses and programs offered in the United States as correspondence study or via such electronic delivery systems as satellite cable or the Internet The Directory includes over 6 000 courses offered by 154 institutions or distance learning consortium members Following an introduction that describes existing practices and delivery methods the Directory offers three indexes Subject Index of Courses Offered by Level Course Level Index Geographic Index All information was supplied by the institutions Entries include current contact information a description of the institution and the courses offered grade level and admission information tuition and fee information enrollment periods delivery information equipment

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Som Naidu, 2003-12-16 Exploring the creative opportunities opened up by ICT in the modern classroom this text presents an authoritative survey of ICT's impact upon core teaching functions and draws from the experiences of leading practitioners in the field

Unveiling the Magic of Words: A Review of "**Explore Learning Photosynthesis Lab Answers**"

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web when the reactants have more potential energy than the products have and the extra energy is released to the surroundings it is called activation energy the height of the hill on a potential energy diagram is a measure of the

endothermic the reaction above can be categorized as

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web 1 if the pe of the reactants is 430 kJ and the pe of the products is 190 kJ what is the ΔH 2 if the pe of the reactants is 430 kJ and the activation energy is 220 how much total energy will be needed to be added for the reaction to proceed transcribed image text potential energy diagram answer the questions using the graph

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web figure 5 5 1 a potential energy diagram shows the total potential energy of a reacting system as the reaction proceeds a in an endothermic reaction the energy of the products is greater than the energy of the reactants and ΔH is positive b in an exothermic reaction the energy of the products is lower than the energy of the

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web answer see below explanation the rate of a chemical reaction $A + B \rightarrow C + D$ is given in first approximation by $v = k_v \frac{A}{B}$ where $k_v = k e^{-E_a/RT}$ where k depends by many factors as solvent geometry type of reaction E_a is the activation energy R is the universal constant of gases T is the absolute temperature

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energy depends on its physical properties and position in a system potential energy comes in many forms such as gravitational potential energy due to an object's mass and position in a gravitational field

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web the energy of the reactants is shown on the energy diagram above on the right side of the energy diagram draw a horizontal line segment to indicate the energy of the products draw a vertical line segment to indicate ΔH for the reaction and label it with the correct value see attached image

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