

Name: Krystal Rodriguez

Date: _____

Student Exploration: Photosynthesis Lab

Vocabulary: carbon dioxide, chlorophyll, glucose, limiting factor, nanometer, photosynthesis, wavelength

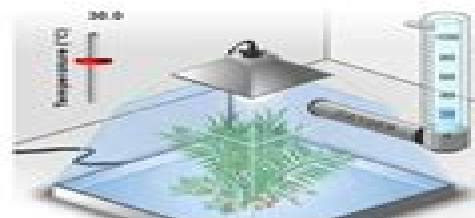
Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

- To survive, what gas do we need to breathe in? oxygen
- Where is this gas produced? Inside the 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.



- Observe the left pane closely. What do you think the bubbles are? Oxygen
- 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?
Light intensity helps with the production of oxygen by the plants.
- Experiment with the vertical **Temperature** slider (upper left) and the **CO₂ level** slider.
 - How does temperature affect oxygen production? If it is to hot or to cold the oxygen flow decreases.
 - How does CO₂ level affect oxygen production? The Co(2) does not affect oxygen production
 - How does oxygen production relate to the rate of photosynthesis? The rate of photosynthesis is directly related to how much oxygen is produced.

Explore Learning Photosynthesis Lab Answers

Louis Neal Irwin



Explore Learning Photosynthesis Lab Answers:

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 *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 **Learning and Teaching with Technology** 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 Inquiring Scientists, Inquiring Readers in Middle School Terry Shiverdecker, Jessica Fries-Gaither, 2016-11-30 Great news for multitasking middle school teachers Science educators Terry Shiverdecker and Jessica Fries Gaither can help you blend inquiry based science and literacy instruction to support student learning and maximize your time Several unique features make Inquiring Scientists Inquiring Readers in Middle School a valuable resource Lessons integrate all aspects of literacy reading writing speaking listening and viewing The texts are relevant nonfiction including trade books newspaper and magazine articles online material infographics and even videos A

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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 *Handbook of Research on Educational Communications and Technology* David Jonassen,Michael J. Spector,Marcy Driscoll,M. David Merrill,Jeroen van Merriënboer,Marcy P. Driscoll,2008-09-25 First Published in 2008 Sponsored by the Association of Educational Communication and Technology AECT the third edition of this groundbreaking Handbook continues the mission of its predecessors to provide up to date summaries and syntheses of recent research pertinent to the educational uses of information and communication technologies In addition to updating this new edition has been expanded from forty one to fifty six chapters organized into the following six sections foundations strategies technologies models design and development and methodological issues In response to feedback from users of the second edition the following changes have been built into this edition More Comprehensive topical coverage has been expanded from forty one to fifty six chapters and includes many more chapters on technology than in previous editions Restructured Chapters this edition features shorter chapters with introductory abstracts keyword definitions and extended bibliographies More International more than 20% of

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Reshaping Learning Ronghuai Huang, Kinshuk, J. Michael Spector, 2012-12-20 This edited volume with selected papers from extinguished experts and professors in the field of learning technology and the related fields who are far sighted and have his her own innovative thoughts on the development of learning technology This book will addresses the main issues concerned with the trend and future development of learning processes innovative pedagogies changes effects of new technologies on education future learning content Learning technology has been affected by advances in technology development and changes in the field of education Nowadays we cannot afford to sense the changes and then make adaption to it What we should do is to predict the changes and make positive and active reactions to help the trend go smoothly and in a more beneficial way This book aims to gather the newest ideas on the frontiers and future development of learning education from the aspects of learning pedagogies and technologies in learning in order to draw a picture of learning education in the near future *The Software Encyclopedia 2001* ,2001 Haystack Full of Needles Louis Neal Irwin, 2023-11-08 How do we store information in the brain Is memory a thing in a place like a specific molecule in a particular cell Or does learning require a process in a population like neurons firing in a specific pattern for each experience This combination of memoir and history tells the story of how the mechanisms of memory were gradually revealed through biographical vignettes of the scientists who set out to solve the riddle of memory including the author s own efforts as he was coming of age as a scientist It shows how individual goals intertwine with the technologies at hand to push scientific knowledge forward often erratically and always in the context of social forces and private ups and downs Not only a compelling personal story with the war in Vietnam civil rights movement and downfall of two presidents as backdrop this is a lucid explanation of brain function for the nonscientist and valuable contribution to the history of science in the decades that saw neuroscience join molecular biology as the marquee biomedical accomplishments of the twentieth century

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web in this lab trimyristin is extracted from ground nutmeg occurring in many vegetable oils as well as myristic acid trimyristin consists of long saturated hydrocarbon chains and it is relatively nonpolar thus using a relatively nonpolar solvent trimyristin can be easily extracted by the concept of like dissolves like

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