



## 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? 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.



- Observe the left pane closely. What do you think the bubbles are? I think the bubbles are bubbles of 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?  
When the light intensity increases the oxygen production also increases.
- Experiment with the vertical **Temperature** slider (upper left) and the **CO<sub>2</sub>** level slider.
  - How does temperature affect oxygen production?  
Oxygen production decreases when the temperature is over 31 degrees and increases between 17 and 31 degrees.
  - How does CO<sub>2</sub> level affect oxygen production?  
When the CO<sub>2</sub> level is under 230ppm oxygen production decreases, when the CO<sub>2</sub> levels are over 230ppm the oxygen production doesn't change.



# Answers For Student Exploration Photosynthesis Lab

**JL Elias**

## **Answers For Student Exploration Photosynthesis Lab:**

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 scinece students work together in groups of three or four with limted teacher guidance to develop lab procedures for the investigation of questions which can be studied in the laboratory or field

**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

The Science Teacher ,2006

**Integrating Engineering and Science**

**in Your Classroom** Eric Brunsell,2012 From the very first day you use them the design challenges in this compendium will spur your students too to jump right in and engage throughout the entire class The activities reinforce important science content while illustrating a range of STEM skills The 30 articles have been compiled from Science and Children Science Scope and The Science Teacher NSTA s journals for elementary through high school Integrating Engineering and Science in Your Classroom will Excite students of all ages with activities involving everything from light sabers and egg racers to prosthetic arms and potatoes Apply to lessons in life and environmental science Earth science and physical science Work well in traditional classrooms as well as after school programs Next time you need an engaging STEM activity you ll be glad you have this collection to help you blend meaningful and memorable experiences into your lessons As Editor Eric Brunsell promises By exposing students to authentic engineering activities you can help students uncover the profession that makes

the world work **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 **Exploring Biology** Wilke,1996-04 **Nor'easter**,1990 **The Software Encyclopedia 2001** ,2001 **Resources in education** ,1984-06 **Life on Earth** Teresa Audesirk,Gerald Audesirk,Bruce E. Byers,2008 **Life on Earth** Fifth Edition introduces readers to biology through real world applications and expanded human interest case studies that run throughout each chapter From the authors of the highly successful **Biology** **Life on Earth** Eighth Edition **Life on Earth** Fifth Edition provides the most extensive environmental and ecology coverage of any text on the market with an Earth Watch feature box that appears throughout the text and new to this edition a chapter covering conservation biology Chapter 31 **Conserving Life on Earth** An Introduction to Life on Earth Atoms Molecules and Life Cell Membrane Structure and Function Cell Structure and Function Energy Flow in the Life of a Cell Capturing Solar Energy Photosynthesis Harvesting Energy Glycolysis and Cellular Respiration The Continuity of Life How Cells Reproduce Patterns of Inheritance DNA The Molecule of Heredity Gene Expression and Regulation Biotechnology Principles of Evolution How Populations Evolve The History of Life on Earth The Diversity of Life Plant Form and Function The Plant Life Cycle Homeostasis and the Organization of the Animal Body Circulation and Respiration Nutrition Digestion and Excretion Defenses against Disease Chemical Control of the Animal Body The Endocrine System The Nervous System and the Senses Animal Reproduction and Development Animal Behavior Population Growth Community Interactions How Do Ecosystems Work Earth's Diverse Ecosystems **Conserving Life on Earth** For all readers interested in biology **School Library Journal** ,2003 **The American Biology Teacher** ,2000 **Classroom BirdWatch** Cornell University. Laboratory of Ornithology,2001 **Fate of the Rain Forest** ,1996 **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 **InCider** ,1992 **Guiding Curriculum Decisions for Middle-grades Science** Barbara Brauner Berns,2001 This book presents a framework for decision making provides an overview of the curriculum decision making process and contains detailed information on a variety of science curricula and curriculum resources **Quantum** ,1994 The student magazine of math and science **Current Index to Journals in Education** ,1996

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