

## Student Exploration: Photosynthesis Lab

**GREEN HIGHLIGHTS** indicate when you run the Gizmos.

**YELLOW HIGHLIGHTS** indicate you must respond to a question.

**AQUA HIGHLIGHTS ARE OPTIONAL ENRICHMENT (Extra Credit) Activity.**

**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 \_\_\_\_\_
- **EXPLAIN** where this gas is produced: \_\_\_\_\_

### 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. Look at the plant in the left pane of the Gizmos. Observe the plant closely. **What do you think the bubbles are?** \_\_\_\_\_ oxygen \_\_\_\_\_ **Explain why you think that:**  
because when plant get sunlight it evaporate.
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 (read the oxygen flow on the right panel)?**  
\_\_\_\_\_
3. **Experiment with the vertical Temperature slider (upper left) and the CO<sub>2</sub> level slider.**
  - A. **How does temperature affect oxygen production** ("When temperature increases, oxygen..." "When temperature decreases, oxygen...")? \_\_\_\_\_
  - B. **How does CO<sub>2</sub> level affect oxygen production** ("When CO<sub>2</sub> increases, oxygen..." "When CO<sub>2</sub> decreases, oxygen...")? \_\_\_\_\_

# Explore Learning Student Exploration Photosynthesis Lab Answers

**Huangqi Zhang**



## **Explore Learning Student Exploration Photosynthesis Lab Answers:**

*Resources for Teaching Elementary School Science* National Science Resources Center of the National Academy of Sciences and the Smithsonian Institution, 1996-04-28 What activities might a teacher use to help children explore the life cycle of butterflies What does a science teacher need to conduct a leaf safari for students Where can children safely enjoy hands on experience with life in an estuary Selecting resources to teach elementary school science can be confusing and difficult but few decisions have greater impact on the effectiveness of science teaching Educators will find a wealth of information and expert guidance to meet this need in *Resources for Teaching Elementary School Science* A completely revised edition of the best selling resource guide *Science for Children Resources for Teachers* this new book is an annotated guide to hands on inquiry centered curriculum materials and sources of help in teaching science from kindergarten through sixth grade Companion volumes for middle and high school are planned The guide annotates about 350 curriculum packages describing the activities involved and what students learn Each annotation lists recommended grade levels accompanying materials and kits or suggested equipment and ordering information These 400 entries were reviewed by both educators and scientists to ensure that they are accurate and current and offer students the opportunity to Ask questions and find their own answers Experiment productively Develop patience persistence and confidence in their own ability to solve real problems The entries in the curriculum section are grouped by scientific area Life Science Earth Science Physical Science and Multidisciplinary and Applied Science and by type core materials supplementary materials and science activity books Additionally a section of references for teachers provides annotated listings of books about science and teaching directories and guides to science trade books and magazines that will help teachers enhance their students science education *Resources for Teaching Elementary School Science* also lists by region and state about 600 science centers museums and zoos where teachers can take students for interactive science experiences Annotations highlight almost 300 facilities that make significant efforts to help teachers Another section describes more than 100 organizations from which teachers can obtain more resources And a section on publishers and suppliers give names and addresses of sources for materials The guide will be invaluable to teachers principals administrators teacher trainers science curriculum specialists and advocates of hands on science teaching and it will be of interest to parent teacher organizations and parents **Resources in Education** ,1990

*Differentiated Assessment for Middle and High School Classrooms* Deborah Blaz, 2013-10-31 This book shows middle and high school teachers in differentiated classrooms how to integrate assessment into the teaching and learning process With examples from real classrooms this book demonstrates how to use a wide variety of assessment to better address the needs of your students with regard to their learning style level of cognitive ability skill level interests etc Included are detailed examples of both formative and summative assessments **The Software Encyclopedia** ,1988 [The American Biology Teacher](#) ,1995 **Multidisciplinary Research Area in Arts, Science & Commerce (Volume-14)** Chief Editor- Biplab

Auddya, Editor- Mulay Atul Ramesh Rao, Dr. R. K. Ratna Devi, Mrs. Farida Babu Nadaf, Dr. Poonam Bajpai, Dr. Challoyu  
Jyothsna, Dr. Raja Sekhar Koduru, 2026-01-15      **The Video Source Book** David J. WEINER, 1990      Who's who in  
America, 2003

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