

Student Exploration: Photosynthesis Lab

By Nidhi Karavadra

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 gas.
- 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 light intensity decreases oxygen production decreases and when the light intensity increases the production of oxygen increases too however after a certain % of light intensity (38%) oxygen produced stays the same.
- Experiment with the vertical **Temperature** slider (upper left) and the **CO₂ level** slider.
 - How does temperature affect oxygen production?
 - As the temperature increases the oxygen production increase however after 28 degrees the production of oxygen starts to fall.
 - How does CO₂ level affect oxygen production?
 - As CO₂ level rise oxygen production increase however after 360 ppm oxygen produced stays the same
 - How does oxygen production relate to the rate of photosynthesis?
 - The higher the rate of photosynthesis is, the higher is oxygen production.
 - What is the formula for photosynthesis?
 - $6CO_2 + 6H_2O \rightarrow C_6H_{12}O_6 + 6O_2$

Activity A:

Colored light

Get the Gizmo ready:

- Select the **COLOR** tab and the **BAR CHART** tab.
- Set the **Temperature** to 24°C, the **Light intensity** to 90%, and the **CO₂ level** to 1,000 ppm.



Introduction: Plants use a green pigment called **chlorophyll** to absorb light and convert its energy into a form that the plant can use. Chlorophyll gives plants their green color.

Explore Learning Photosynthesis Lab Answers

**David Jonassen, Michael J.
Spector, Marcy Driscoll, M. David
Merrill, Jeroen van Merriënboer, Marcy
P. Driscoll**

Explore Learning Photosynthesis Lab Answers:

Exploring Mathematical Modeling in Biology Through Case Studies and Experimental Activities Rebecca Sanft, Anne Walter, 2020-04-01 Exploring Mathematical Modeling in Biology through Case Studies and Experimental Activities provides supporting materials for courses taken by students majoring in mathematics computer science or in the life sciences The book s cases and lab exercises focus on hypothesis testing and model development in the context of real data The supporting mathematical coding and biological background permit readers to explore a problem understand assumptions and the meaning of their results The experiential components provide hands on learning both in the lab and on the computer As a beginning text in modeling readers will learn to value the approach and apply competencies in other settings Included case studies focus on building a model to solve a particular biological problem from concept and translation into a mathematical form to validating the parameters testing the quality of the model and finally interpreting the outcome in biological terms The book also shows how particular mathematical approaches are adapted to a variety of problems at multiple biological scales Finally the labs bring the biological problems and the practical issues of collecting data to actually test the model and or adapting the mathematics to the data that can be collected

Missions to the Moon and Exploring the Cold Universe COSPAR. Scientific Commission E. E1 Symposium, COSPAR. Scientific Assembly, 1996 **Prentice Hall**

Exploring Life Science Anthea Maton, 1997 [Resources for Teaching Elementary School Science](#) National Science Resources Center of the National Academy of Sciences and the Smithsonian Institution, 1996-03-28 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

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 the contributing authors and one of the volume editors are non American Theoretical Focus Part 1 provides expanded cross disciplinary theoretical coverage Methodological Focus an extended methodological chapter begins with a comprehensive overview of research methods followed by lengthy separately authored sections devoted to specific methods Research and Development Focus another extended chapter with lengthy separately authored sections covers educational technology research and development in different areas of investigation e g experimental methods to determine the effectiveness of instructional designs technology based instructional interventions in research research on instructional design models

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Resources for Teaching Middle School Science Smithsonian Institution, National Academy of Engineering, National Science Resources Center of the National Academy of Sciences, Institute of Medicine, 1998-04-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them *Resources for Teaching Middle School Science* developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the success of *Resources for Teaching Elementary School Science* the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity books Each annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of accompanying materials a reading level and ordering information The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide The criteria reflect and incorporate goals and principles of the National Science Education Standards The annotations designate the specific content standards on which these curriculum pieces focus In addition to the curriculum chapters the guide contains six chapters of diverse resources that are directly relevant to middle school science Among these is a chapter on educational software and multimedia programs chapters on books about science and teaching directories and guides to science trade books and periodicals for teachers and students Another section features institutional resources One chapter lists about 600 science centers museums and zoos where teachers can take middle school students for interactive science experiences Another chapter describes nearly 140 professional associations and U S government agencies that offer resources and assistance Authoritative extensive and thoroughly indexed and the only guide of its kind *Resources for Teaching Middle School Science* will be the most used book on the shelf for science

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