Photosynthesis Lab

Answer Key

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

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

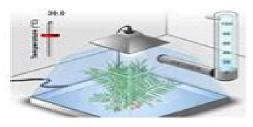
[Note: The purpose of these questions is to activate prior knowledge and get students thinking. Students are not expected to know the answers to the Prior Knowledge Questions.]

- To survive, what gas do we need to breathe in? Oxygen
- Where is this gas produced? In plants

Gizmo Warm-up

During photosynthesis, plants use the energy of light to produce glucose ($C_0H_{12}O_0$) 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?

Up to 40%, increasing the light intensity increases the oxygen production. Beyond 40% there is no effect.

- Experiment with the vertical Temperature slider (upper left) and the CO₂ level slider.
 - A. How does temperature affect oxygen production?
 Oxygen production is maximized around 25 °C. Oxygen production goes down when temperature is too hot or too cold.
 - B. How does CO₂ level affect oxygen production?
 Up to about 300–400 ppm, increasing CO₂ production increases oxygen production.
 Beyond about 400 ppm, there is no change in oxygen production as CO₂ level is increased.
 - C. How does oxygen production relate to the rate of photosynthesis? A greater flow of oxygen corresponds to a higher rate of photosynthesis.



Laboratory Activity 2 Answer Key

Gina Hamilton

Laboratory Activity 2 Answer Key:

Anatomy and Physiology, Laboratory Manual Connie Allen, Valerie Harper, 2016-12-28 The Allen Laboratory Manual for Anatomy and Physiology 6th Edition contains dynamic and applied activities and experiments that help students both visualize anatomical structures and understand complex physiological topics Lab exercises are designed in a way that requires students to first apply information they learned and then critically evaluate it With many different format options available and powerful digital resources it s easy to customize this laboratory manual to best fit your course Manual for Anatomy and Physiology Connie Allen, Valerie Harper, 2020-12-10 Laboratory Manual for Anatomy Physiology 7th Edition contains dynamic and applied activities and experiments that help students both visualize anatomical structures and understand complex physiological topics Lab exercises are designed in a way that requires students to first apply information they learned and then critically evaluate it With many different format options available and powerful digital resources it's easy to customize this laboratory manual to best fit your course While the Laboratory Manual for Anatomy and Physiology is designed to complement the latest 16th edition of Principles of Anatomy Physiology it can be used with any two SKILLFUL MINDS CBSE AI, Coding, Robotics Class 2 Computer Book with ICT Fundamentals (Edition 2) for Academic Year 2025-26| Lab Activities|PictoBlox Junior Blocks| MS Paint | 21st Century Skills Pankaj Kumar Verma, Dhrupal R Shah, Khushbu Chauhan, Devi M, 2024-11-01 INTERACTIVE SOFTWARE TOOLS The computer book for class 2 uses Tux Paint PictoBlox Jr blocks and Quarky engaging students with interactive software and hands on robotics activities This approach makes learning more dynamic and enjoyable for kids COMPREHENSIVE LEARNING The class 2 coding book offers 18 lab activities and 18 classroom learning sessions providing a balanced mix of practical and theoretical knowledge FOCUS ON MODERN TECHNOLOGIES The class 2 CBSE curriculum emphasizes computers horizontal block coding Artificial Intelligence and Robotics preparing students for the ever evolving technological landscape DIGITAL CERTIFICATION Students must submit 5 lab activities online to earn a digital certificate accredited by STEMpedia STEM org and ARTPARK This process encourages practical learning and acknowledges their achievements RICH EDUCATIONAL CONTENT Lesson plans and lecture slides include a mix of textual imagery and video based content This class 2 computer book diversity caters to different learning styles and enhances overall understanding Table of Contents Know Your Computer Understand what a computer is its parts types and uses compare humans vs computers and lab activities related to computer parts keyboard and mouse Fun with Paint Introduction to TUX Paint its parts using designer tools in TUX Paint and lab activities including coloring and drawing Critical Thinking and Analysis Develop decision making skills understand patterns and loops and learn about decoding and sequencing Into the World of Coding An introduction to PictoBlox Junior Blocks a grasp of creative thinking and algorithms and lab activities on creating codes stories and movements in PictoBlox Into the Robotics Learn about robots and their capabilities Introduction to Quarky and its functionalities and lab activities such as

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Mathematics Lab Manual Class X | According to the latest CBSE syllabus and other State Boards following the CBSE curriculum Mr. Rohit Manglik,Mr. Mohit Triphathi,2022-08-04 With the NEP and expansion of research and knowledge has changed the face of education to a great extent In the Modern times education is not just constricted top the lecture method but also includes a practical knowledge of certain subjects This way of education helps a student to grasp the basic concepts and principles Thus trying to break the stereotype that subjects like Mathematics and Science means studying lengthy formulas complex structures and handling complicated instruments we are trying to make education easy fun and enjoyable System Analysis and Design Textbook Manish Soni,2024-11-17 Welcome to the world of System Analysis and Design where the intricacies of technology and the art of problem solving converge to create powerful solutions that drive the modern world This book is crafted to provide a comprehensive yet engaging journey through the fundamental concepts methodologies and tools that are pivotal in the field of System Analysis and Design In today s fast paced digital era

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book aligns with modern CBSE educational standards and seeks to foster creativity logical thinking and a foundational understanding of emerging technologies from an early age

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