

C. How does oxygen production relate to the rate of photosynthesis?

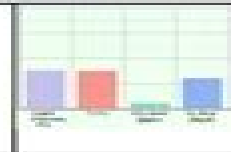
Less Oxygen Production  
Photosynthesis proceeds slowly.

**Activity A:**

**Ideal conditions**

Get the Gizmo ready:

- Be sure that the BAR CHART tab is selected.
- Turn on **Show numerical values**.



**Question:** In the Gizmo, what are the ideal conditions for photosynthesis?

1. **Form hypothesis:** During photosynthesis, light energy is used to synthesize carbon dioxide ( $\text{CO}_2$ ) and water ( $\text{H}_2\text{O}$ ) into glucose ( $\text{C}_6\text{H}_{12}\text{O}_6$ ) and oxygen ( $\text{O}_2$ ). The complex series of chemical reactions is summarized by the following formula:



In the Gizmo, what light intensity and  $\text{CO}_2$  level do you think will maximize the rate of photosynthesis?

Light Intensity - 37%  $\text{CO}_2$ - 1000

2. **Experiment:** Use the Gizmo to find the ideal conditions for photosynthesis. Use any method you like. When you think you have the answer, list the conditions below.

| Temperature | Light intensity | $\text{CO}_2$ level | Oxygen production |
|-------------|-----------------|---------------------|-------------------|
| 24.0        | 81              | 1000                | 51.9              |

3. **Revise and repeat:** One way to test if you've found the ideal conditions is to change each variable slightly from the value that you recorded above. If the oxygen production decreases with each change that you make, it is likely you have found the ideal conditions. If a small change causes oxygen production to increase, continue to experiment.

If necessary, revise your numbers in the table above.

4. **Think and discuss:** Think about the process of finding the ideal conditions

A. Why would it be hard to find the ideal light intensity if the temperature were very hot or cold?

No matter how bright the light was, you would produce very little oxygen regardless of how hot or cold it was.

B. Why would it be hard to find the ideal  $\text{CO}_2$  level if the light intensity were very low?

Because if the light intensity was low, little oxygen would be produced, regardless of how high or low you set the  $\text{CO}_2$  level.

# Answer Key To Why Study Photosynthesis

**John N. Prebble**



## **Answer Key To Why Study Photosynthesis:**

**Plants (eBook)** Edward P. Ortleb, Richard Cadice, 1986-09-01 This book presents a program of basic studies focusing on green plants. Students will study and compare algae, mosses, ferns, and seed plants. Each of the twelve teaching units in this book is introduced by a color transparency, print books, or PowerPoint slide eBooks that emphasizes the basic concept of the unit and presents questions for discussion. Reproducible student pages provide reinforcement and follow up activities. The teaching guide offers descriptions of the basic concepts to be presented, background information, suggestions for enrichment activities, and a complete answer key. *Handbook of Photosynthesis* Mohammad Pessarakli, 2005-03-29 Quite naturally, photosynthesis has achieved massive amounts of attention in recent years. Aside from being the most spectacular physiological process in plant growth, it is actually the key to our dealing with the potentially cataclysmic accumulation of carbon dioxide in the earth's atmosphere. Unfortunately, while information is plentiful, all this attention has resulted in a scattered database on photosynthesis with no contemporary starting point at least until now. With the second edition of the *Handbook of Photosynthesis*, Mohammad Pessarakli once again fills the need for an authoritative and balanced resource by assembling a team of experts from across the globe. Together they have created a comprehensive reference that in a single volume includes important background information as well as the most recent research findings on photosynthesis. Completely Revised with Several New Chapters. The handbook is a completely updated reworking of the critically acclaimed first edition. It details all of the photosynthetic factors and processes under both normal and stressful conditions, covering lower and higher plants as well as related biochemistry and plant molecular biology. Divided into fourteen sections for ease of reference, with nearly 8000 bibliographic citations, the handbook contains authoritative contributions from over 80 scientists. It includes approximately 500 drawings, photographs, tables, and equations, all designed to reinforce and clarify important text material. *Environmental Studies* YCT Expert Team, 2022-23 CTET TET Environmental Studies Solved Papers **Energy Research Abstracts**, 1989 **Photosynthesis: Mechanisms and Effects** Gyöző Garab, 2012-12-06 Photosynthesis is a process on which virtually all life on Earth depends. To answer the basic questions at all levels of complexity, from molecules to ecosystems and to establish correlations and interactions between these levels, photosynthesis research perhaps more than any other discipline in biology requires a multidisciplinary approach. Congresses probably provide the only forums where progress throughout the whole field can be overviewed. The Congress proceedings give faithful pictures of recent advances in photosynthesis research and outline trends and perspectives in all areas ranging from molecular events to aspects of photosynthesis on the global scale. The Proceedings Book, a set of 4 or 5 volumes, is traditionally highly recognized and intensely quoted in the literature and is found on the shelves of most senior scientists in the field and in all major libraries. CBSE Science Chapterwise Case Study Class 9 Priti Singhal, 2024-11-17 This book is structured to align with the latest syllabus and curriculum guidelines, ensuring that the content is both relevant and rigorous. Each chapter begins with a clear

set of learning objectives providing a roadmap for students to understand what they will achieve by the end of the chapter. We have included numerous diagrams, illustrations and real life examples to make complex concepts more accessible and engaging.

*Photosynthesis: Physiology and Metabolism* Richard C. Leegood, Thomas D. Sharkey, Susanne von Caemmerer, 2006-04-11

Photosynthesis Physiology and Metabolism is the one we have concentrated on in the acquisition and ninth volume in the series *Advances in Photosynthesis and Metabolism* of carbon. However, a full understanding of the series Editor Govindjee. Several volumes in this of reactions involved in the conversion of to series have dealt with molecular and biophysical aspects of photosynthesis in the bacteria, algae and plants. We have therefore commissioned international experts focussing largely on what have been authorities to write chapters on, for example, traditionally though inaccurately termed the light reactions between carbon and nitrogen metabolism reactions. Volume 1: The Molecular Biology of photosynthesis in photosynthetic tissues and on the Cyanobacteria. Volume 2: Anoxygenic Photosynthesis: control of gene expression by metabolism. Photo Bacteria. Volume 3: Biophysical Techniques in photosynthesis: carbon assimilation is also one of the most important. Photosynthesis and Volume 7: The Molecular Biology of rapid metabolic processes that occurs in plant cells of the Chloroplasts and Mitochondria in Chlamydomonas and therefore has to be considered in relation to the monads. Volume 4: dealt with Oxygenic Photosynthesis: transport whether it be the initial uptake of carbon synthesis. The Light Reactions and volume 5 with intracellular transport between organelles. Inter Photosynthesis and the Environment: whereas the cellular transport as occurs in plants or transport structure and function of lipids in photosynthesis of photosynthates through and out of the leaf. All was covered in Volume 6 of this series: Lipids in these aspects of transport are also covered in the *Photosynthesis: Structure, Function and Genetics* book.

Photosynthesis : G. Garab, 1998-12-15

Photosynthesis is a process on which virtually all life on Earth depends. To answer the basic questions at all levels of complexity from molecules to ecosystems and to establish correlations and interactions between these levels, photosynthesis research perhaps more than any other discipline in biology requires a multidisciplinary approach. Congresses probably provide the only forums where progress throughout the whole field can be overviewed. The Congress proceedings give faithful pictures of recent advances in photosynthesis research and outline trends and perspectives in all areas ranging from molecular events to aspects of photosynthesis on the global scale. The Proceedings Book, a set of 4 or 5 volumes, is traditionally highly recognized and intensely quoted in the literature and is found on the shelves of most senior scientists in the field and in all major libraries.

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