

AP LAB INVESTIGATION 5 PHOTOSYNTHESIS

What factors affect the rate of photosynthesis in living leaves?

■ BACKGROUND

Photosynthesis fuels ecosystems and replenishes the Earth's atmosphere with oxygen. Like all enzyme-driven reactions, the rate of photosynthesis can be measured by either the disappearance of substrate or the accumulation of product (or by-products).

The general summary equation for photosynthesis is



What could you measure to determine the rate of photosynthesis?

- Production of O_2 (How many moles of O_2 are produced for one mole of sugar synthesized?), or,
- Consumption of CO_2 (How many moles of CO_2 are consumed for every mole of sugar synthesized?)

In this investigation, you will use a system that measures the accumulation of oxygen.

Because the spongy mesophyll layer of leaves (shown in Figure 1) is normally infused with gases (O_2 and CO_2), leaves — or disks cut from leaves — normally float in water. What would you predict about the density of the leaf disk if the gases are drawn from the spongy mesophyll layer by using a vacuum and replaced with water? How will that affect whether or not the leaf floats? If the leaf disk is placed in a solution with an alternate source of carbon dioxide in the form of bicarbonate ions, then photosynthesis can occur in a sunken leaf disk. As photosynthesis proceeds, oxygen accumulates in the air spaces of the spongy mesophyll, and the leaf disk will once again become buoyant and rise in a column of water. Therefore, the rate of photosynthesis

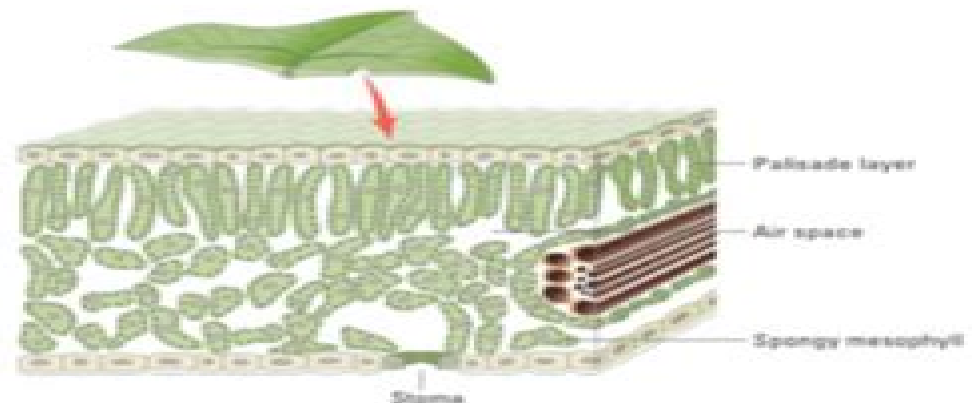


Figure 1. Leaf Anatomy

Biology Lab Investigation 5 Answers

S Marginson



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Table of Contents Biology Lab Investigation 5 Answers

1. Understanding the eBook Biology Lab Investigation 5 Answers
 - The Rise of Digital Reading Biology Lab Investigation 5 Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Biology Lab Investigation 5 Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Biology Lab Investigation 5 Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Biology Lab Investigation 5 Answers
 - Personalized Recommendations
 - Biology Lab Investigation 5 Answers User Reviews and Ratings
 - Biology Lab Investigation 5 Answers and Bestseller Lists

5. Accessing Biology Lab Investigation 5 Answers Free and Paid eBooks
 - Biology Lab Investigation 5 Answers Public Domain eBooks
 - Biology Lab Investigation 5 Answers eBook Subscription Services
 - Biology Lab Investigation 5 Answers Budget-Friendly Options
6. Navigating Biology Lab Investigation 5 Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Biology Lab Investigation 5 Answers Compatibility with Devices
 - Biology Lab Investigation 5 Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Biology Lab Investigation 5 Answers
 - Highlighting and Note-Taking Biology Lab Investigation 5 Answers
 - Interactive Elements Biology Lab Investigation 5 Answers
8. Staying Engaged with Biology Lab Investigation 5 Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Biology Lab Investigation 5 Answers
9. Balancing eBooks and Physical Books Biology Lab Investigation 5 Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Biology Lab Investigation 5 Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Biology Lab Investigation 5 Answers
 - Setting Reading Goals Biology Lab Investigation 5 Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Biology Lab Investigation 5 Answers
 - Fact-Checking eBook Content of Biology Lab Investigation 5 Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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