

AQA Biology Required Practical

6 Photosynthesis

1. Set up like the image, a boiling tube at a distance of 10 cm away from the light source

2. Leave the boiling tube for 5 minutes

3. Start the stopwatch and count the number of bubbles produced in one minute

4. Record the results in a table

5. Repeat twice more and calculate a mean

6. Repeat steps 1-5 at increasing distances from the light of 20cm, 30cm, and 40cm

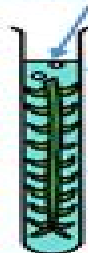
Safety considerations

- Be careful not to spill water near electrical equipment
- Bulb can get hot and burn
- Careful when cutting pondweed with scissors

This allows time for the plants rate of photosynthesis to acclimatise to the light intensity



The cut end of the pondweed is at the top to see the bubble release clearly



Pondweed is cut underwater at an angle to prevent xylem blockage



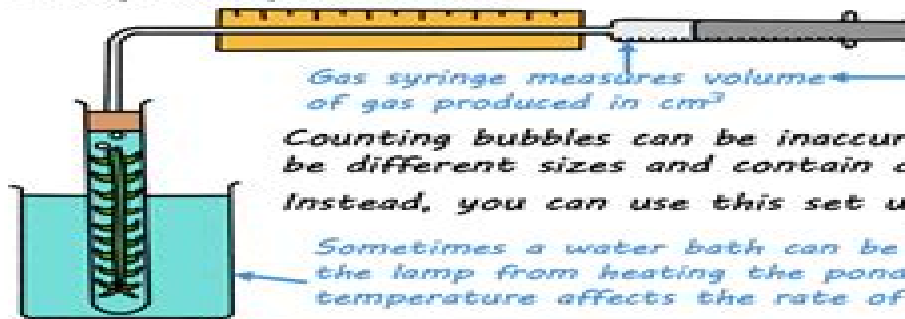
Boiling tube containing hydrogen carbonate solution is a liquid that provides carbon dioxide so that CO₂ doesn't limit photosynthesis during the experiment

You can test the collected gas to prove it is oxygen by seeing if it relights a glowing splint

Gas syringe measures volume of gas produced in cm³

Counting bubbles can be inaccurate as each bubble could be different sizes and contain different amounts of gas. Instead, you can use this set up with a gas syringe

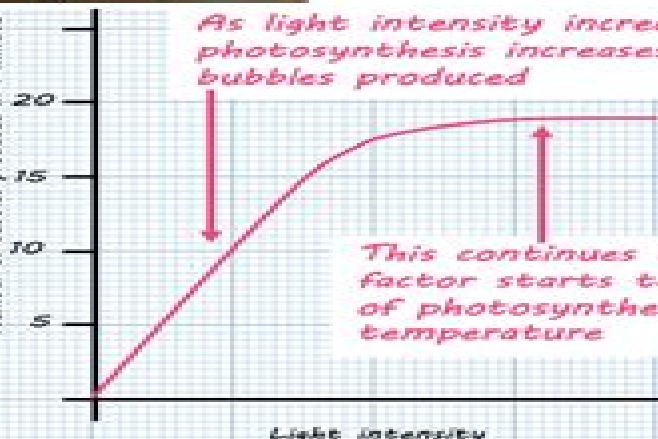
Sometimes a water bath can be used to prevent the lamp from heating the pondweed as temperature affects the rate of photosynthesis



Distance from lamp (cm)	Light intensity	Number of bubbles produced
0	X	20
10	0.01000	11
20	0.00250	3
30	0.00111	2
40	0.0006	1

$$\text{Light Intensity} \propto \frac{1}{\text{Distance}^2}$$

Number of bubbles produced in 1 minute



As light intensity increases, rate of photosynthesis increases seen by more bubbles produced

This continues until another factor starts to limit the rate of photosynthesis e.g. temperature



Photosynthesis Practical For Grade 1caps

Mukasiba Paturungi



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Table of Contents Photosynthesis Practical For Grade 1caps

1. Understanding the eBook Photosynthesis Practical For Grade 1caps
 - The Rise of Digital Reading Photosynthesis Practical For Grade 1caps
 - Advantages of eBooks Over Traditional Books
2. Identifying Photosynthesis Practical For Grade 1caps
 - 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 Photosynthesis Practical For Grade 1caps
 - User-Friendly Interface
4. Exploring eBook Recommendations from Photosynthesis Practical For Grade 1caps
 - Personalized Recommendations

- Photosynthesis Practical For Grade 1caps User Reviews and Ratings
- Photosynthesis Practical For Grade 1caps and Bestseller Lists
- 5. Accessing Photosynthesis Practical For Grade 1caps Free and Paid eBooks
 - Photosynthesis Practical For Grade 1caps Public Domain eBooks
 - Photosynthesis Practical For Grade 1caps eBook Subscription Services
 - Photosynthesis Practical For Grade 1caps Budget-Friendly Options
- 6. Navigating Photosynthesis Practical For Grade 1caps eBook Formats
 - ePub, PDF, MOBI, and More
 - Photosynthesis Practical For Grade 1caps Compatibility with Devices
 - Photosynthesis Practical For Grade 1caps Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Photosynthesis Practical For Grade 1caps
 - Highlighting and Note-Taking Photosynthesis Practical For Grade 1caps
 - Interactive Elements Photosynthesis Practical For Grade 1caps
- 8. Staying Engaged with Photosynthesis Practical For Grade 1caps
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Photosynthesis Practical For Grade 1caps
- 9. Balancing eBooks and Physical Books Photosynthesis Practical For Grade 1caps
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Photosynthesis Practical For Grade 1caps
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Photosynthesis Practical For Grade 1caps
 - Setting Reading Goals Photosynthesis Practical For Grade 1caps
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Photosynthesis Practical For Grade 1caps
 - Fact-Checking eBook Content of Photosynthesis Practical For Grade 1caps

- 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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