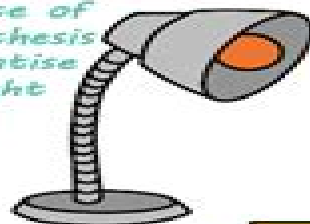


AQA Biology Required Practical

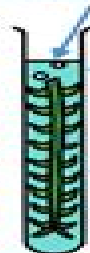
6 Photosynthesis

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

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



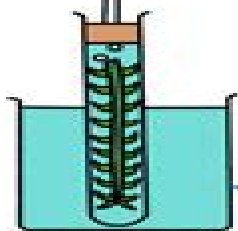
Boiling tube containing hydrogen carbonate solution is a liquid that provides carbon dioxide so that CO₂ doesn't limit photosynthesis during the experiment

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

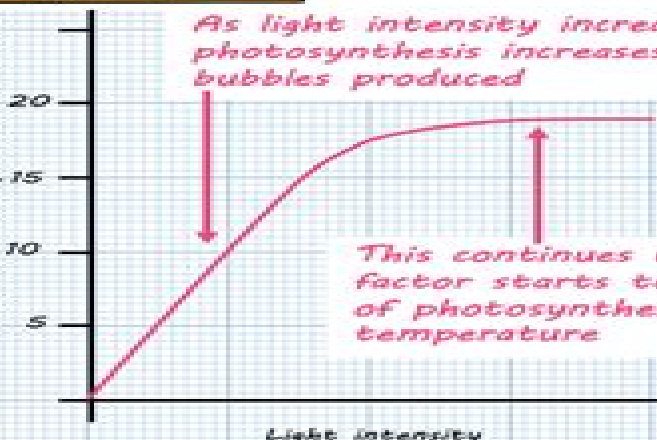
Sometimes a water bath can be used to prevent the lamp from heating the pondweed as temperature affects the rate of photosynthesis



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

Tao Wei



Photosynthesis Practical For Grade 1caps:

This book delves into Photosynthesis Practical For Grade 1caps. Photosynthesis Practical For Grade 1caps is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Photosynthesis Practical For Grade 1caps, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Photosynthesis Practical For Grade 1caps
 - Chapter 2: Essential Elements of Photosynthesis Practical For Grade 1caps
 - Chapter 3: Photosynthesis Practical For Grade 1caps in Everyday Life
 - Chapter 4: Photosynthesis Practical For Grade 1caps in Specific Contexts
 - Chapter 5: Conclusion
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