

AQA Biology Required Practical

6 Photosynthesis

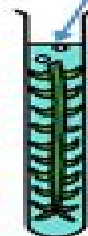
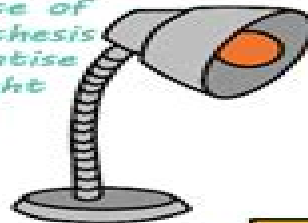
1. Set up like the image, a boiling tube at a distance of 10 cm away from the light source
2. Leave the boiling tube for 5 minutes
3. Start the stopwatch and count the number of bubbles produced in one minute
4. Record the results in a table
5. Repeat twice more and calculate a mean
6. Repeat steps 1-5 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

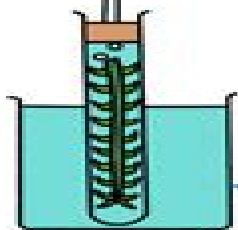


You can test the collected gas to prove it is oxygen by seeing if it relights a glowing splint

Gas syringe measures volume of gas produced in cm³

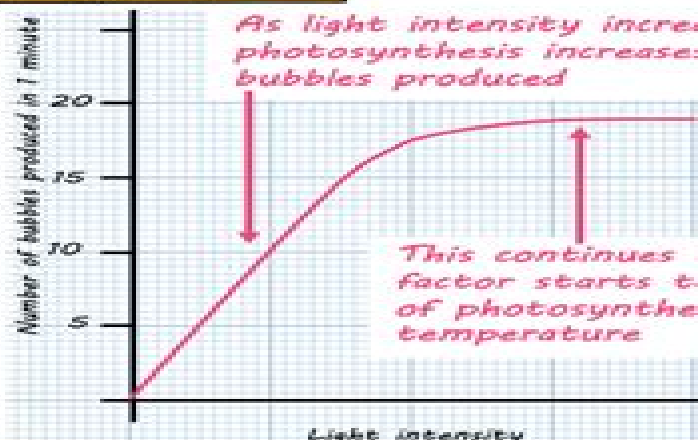
Counting bubbles can be inaccurate as each bubble could be different sizes and contain different amounts of gas. Instead, you can use this set up with a gas syringe

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

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



Photosynthesis Practical For Grade 1caps

Nadia Higgins



Photosynthesis Practical For Grade 1caps:

Photosynthesis Thomas Bell, 2014-06-24 If your child is struggling with science then this book is for you the short book covers the topic and also contains 5 science experiments to work with and ten quiz questions This subject comes from the book Sixth Grade Science For Home School or Extra Practice it more thoroughly covers more third grade topics to help your child get a better understanding of sixth grade math If you purchased that book or plan to purchase that book do not purchase this as the problems are the same Experiment with Photosynthesis Nadia Higgins, 2015 Step by step

instructions help readers explore science concepts and analyze information about photosynthesis **The Effect of Group Practical Tasks on Students' Conceptual Understanding of Photosynthesis** Mukasiba Paturungi, 1991

Photosynthesis Sarah Covshoff, 2019-12-10 This user friendly book provides a range of classical and modern techniques for the study of photosynthesis in a manner accessible to a broad spectrum of researchers Broken into four sections it explores the measurement of physiological photosynthetic parameters quantifying photosynthetic enzyme abundance and catalytic activity visualizing cellular and sub cellular phenotypes and photosynthesis inspired energy generation Written for the highly successful Methods in Molecular Biology series chapters include introductions to their respective topics lists of the necessary materials and reagents step by step laboratory protocols and tips on troubleshooting and avoiding known pitfalls Authoritative and practical Photosynthesis Methods and Protocols aims to aid scientists working toward exciting developments in the understanding and application of photosynthesis

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