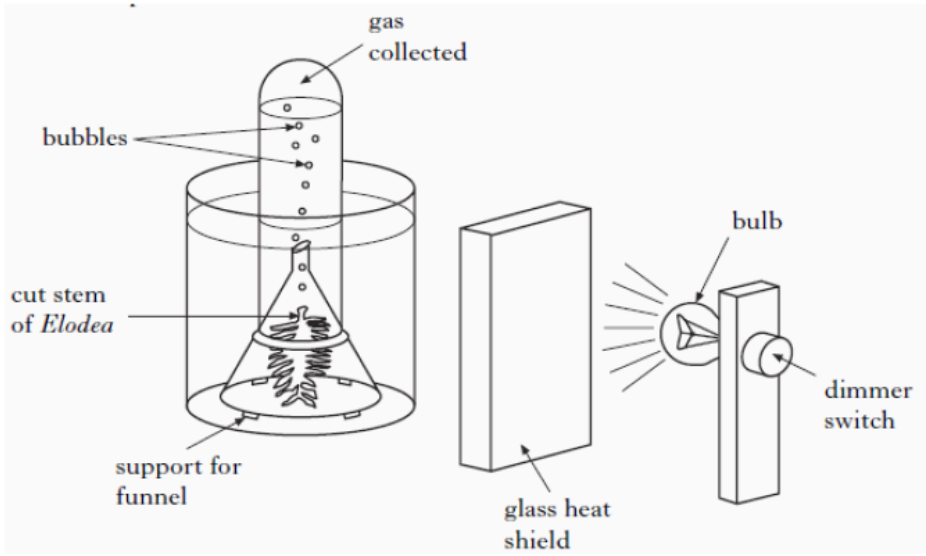


Science

September 2025

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| Year Group: | 10 |
| Subject: | Science (Combined) |
| Lesson 1: | <p><u>Biology: Photosynthesis Required Practical</u></p> <p>TASK 1: Watch the video of the practical. Photosynthesis in Elodea (youtube.com)</p> <p>TASK 2: Answer the following questions.</p> <div style="text-align: center;">  </div> <p>a. What is this required practical about? [1]</p> <p>b. Identify the missing piece of equipment. [1]</p> <p>c. What are your variables in this experiment: [5] Independent variable (altered): Dependent variable (measured): 3 Control variables (kept the same):</p> <p>d. Use the video to write a method for carrying out this investigation. Use numbered bullet points. [6]</p> <p>e. What is the purpose of the glass heat shield? Why is it important? [2]</p> |

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| | <p>f. How would you present your results for this practical? [1]</p> <p>g. Write the word equation for photosynthesis: [2]</p> |
| <u>Lesson 2</u> | <p>Chemistry: Atomic Structure</p> <p>Understanding what atoms are made of and how they are structured is essential in understanding how elements react and combine.</p> <p>Tasks</p> <ol style="list-style-type: none"> Watch these two attached video clips. https://www.bbc.co.uk/bitesize/topics/zh3v4wx/watch/z9fs34j https://www.youtube.com/watch?v=zuQ469vjwgo Take the online quiz on atomic structure (see link below); https://www.bbc.co.uk/bitesize/topics/zck96rd/articles/z2jv9ty#zfp8mbk Take a screenshot or photo of your score to show to your teacher. Draw or build a model of a sodium atom (atomic number 11, mass number 23). |
| <u>Lesson 3</u> | <p>Physics: Atomic Models</p> <p>In physics (and chemistry), you also need to understand how our understanding of atoms has changed over time and the models that we have developed to explain the behaviour of atoms.</p> <p>Task:</p> <ol style="list-style-type: none"> Task watch the attached video clip: https://www.youtube.com/watch?v=9WNFwOqb_24 Create a timeline showing the key developments in our models of atoms. Take the quiz below: |

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| | <p>https://www.bbc.co.uk/bitesize/topics/zmcg7v4/articles/ztctvj6#zh4h3qt</p> |
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4. Take a screen shot or picture to show to you physics teacher.