



## Separate science GCSE's (Biology, Chemistry, Physics)



Exam Board: <b>AQA</b>	Each subject has 2 papers (paper 1 and paper 2  ) each of which is 1 hour 45 minutes.	<a href="https://www.aqa.org.uk/exams-administration/exams-guidance/find-past-papers-and-mark-schemes">https://www.aqa.org.uk/exams-administration/exams-guidance/find-past-papers-and-mark-schemes</a>
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### Skills students are examined on:

Questioning skills	Practical Skills
<p>Fact recall makes up 15% of each paper. The rest of the marks come from;</p> <p>Manipulating data</p> <ul style="list-style-type: none"> <li>- Drawing a graph from data</li> <li>- Extracting data from a table or graph</li> <li>- Recognising and then using a formula to manipulate data given in a question</li> <li>- Performing a statistical analysis on given data e.g. calculating a mean average.</li> </ul> <p>Analysing data</p> <ul style="list-style-type: none"> <li>- Drawing conclusions from graphics, diagrams, tables or graphs</li> <li>- Supporting conclusion with figures or observations.</li> <li>- Evaluating or comparing outcomes with a critical eye for improvement</li> </ul>	<p>There are 24 required practical experiments that will be examined in test papers. You should be able to;</p> <ul style="list-style-type: none"> <li>- Know the experiment / method and when it could be used.</li> <li>- How to undertake the experiment?</li> <li>- How to use the equipment safely?</li> <li>- What could go wrong and tips to help it run smoothly</li> <li>- Critically look at the method and explain how it could be improved</li> </ul> <p><b>Useful websites for revision materials</b></p> <p><a href="http://www.myGCSEscience.co.uk">www.myGCSEscience.co.uk</a> This is a complete revision package that we have purchased for you. You will have a log in and have been shown how to use this by your teacher.</p> <p><a href="http://www.kerboodle.co.uk">www.kerboodle.co.uk</a> You can get online copies of all of the text books that we use in school free of charge at this we site. It also had extra revision and course resources to maximise your learning experience.</p>

### Suggested revision activities to help your child prepare for Science GCSE exams:

#### Understating what the question is asking you to do

It is vital that students practice answering different styles of exam question to ensure that they understand how to answer them appropriately.

Read the question with your child. Ask them what the question is asking the to do? What kind of answer are they being asked to demonstrate? Is it asking for a number, a calculation, or a longer written answer?

Ask them how they would go about answering the question. Is there key information in the text that you could highlight (numbers for example) or is there a diagram that could give you clues as to how to construct an answer?

Practice questions that ask you to draw diagrams such as ionic bonding, Fusion or gravitropism. These questions are marked on the diagrams you produce, once you can do them you can answer any question they ask!

Practice writing extended answers.

- Read the question and using command words, ask what the question is asking them to demonstrate? Check the mark scheme to compare their ideas to the kind of answers they are looking for.
- Can you break down the question into smaller questions or pieces?
- Write a quick plan, adding keys scientific language or ideas in a logical order. Use the ideas they give you in the question to organise your ideas
- Have you answered the whole question? Tick the part of the question you have answered when you that finished that part. You can write on the diagrams!

#### Create a glossary of terms

Encourage your child to go back through their exercise book and create a glossary of all of the terms they have used in Science.

Term	Definition	Look/cover/write/check	Use it in a sentence

#### Recalling and using equations

Help your child to recall key equations using look cover write.

When they can recall them correctly, ask them to re-arrange equations making a different element the subject of the formula (remember change sides, change sides!)

#### Timed Writing

Once your child feels confident and has practised not in timed conditions, help them by timing them to answer questions. Students should take roughly 1 minute to answer a 1 mark question. Longer mark questions may take longer around 10 minutes for a 6 mark question.