

# Science in Year 10

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*Achieving Together*



# Successes!

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Combined Science pass rate (grade 4 and above)  
doubled from 2019-2022, maintained the pass  
rate in 2023

Pass rate for Separate Sciences were minimum 90%  
grade 5 and above

Intervention, revision, support from home was vital

# Science GCSE courses

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## AQA Trilogy Combined Science

- 2 GCSE grades awarded
- Involves the study of all three sciences
- Foundation and Higher tier papers available
- Accepted for A-level Science courses

## AQA Separate Sciences (Bio, Chem, Phys)

- 3 GCSE grades awarded
- Higher demand in terms of literacy and numeracy
- Foundation and Higher tiers available
- Accepted for A-level Science courses

# GCSE Course Structure

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6 exam papers sat in the May/June exam season of Year 11. **No coursework.**

Papers are all 1hr 15mins for Combined (Trilogy)

Science and 1hr 45mins for Separate Science

Biology Paper 1 - Units 1-4

Biology Paper 2 - Units 5-7

Chemistry Paper 1 - Units 1-5

Chemistry Paper 2 - Units 6-10

Physics Paper 1 - Units 1-4

Physics Paper 2 - Units 5-7 (5-8 for physics)

# What to expect in Year 10

End of unit tests - roughly every 4 weeks for Combined Science, every 7-8 weeks for Separate Science

PPE exams in April/May - Paper 1 Biology, Chemistry and Physics

Opportunity to attend revision sessions before the PPE exams and intervention sessions by invitation

Units covered in Year 10: B3-5, C1-5, P3-5 (11 units in total!). Recall of units covered in yr 9

# Content of Exam Papers

Required Practicals (21 in Combined Science, 28 for Separate Science)

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Mix of writing a method, selecting equipment, analysing data and evaluating the procedure

Maths content - 10% Biology, 20% Chemistry, 30% Physics

Heavy emphasis on graph skills - plotting, lines of best fit, interpreting and calculating gradient.  
*Remember what you have done in maths!!*

Physics equations - **21 to remember for Combined Science and 24 for Separate Science**

**YOU WILL NEED TO BE ABLE TO RECALL, REARRANGE AND APPLY UNITS TO THOSE EQUATIONS**

# Homework - Seneca

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Homework set weekly using Seneca online package - provides instant feedback and can be used by students to set their own revision quizzes

Students can select from all the units in the course - so can be used to consolidate current and prior learning

<https://senecalearning.com/en-GB/>

# Revision and self study support - BBC Bitesize

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Key knowledge revision

Mini Tests

Online videos, animations and links

Combined Science -

[GCSE Combined Science - AQA Trilogy - BBC Bitesize](#)

Biology -

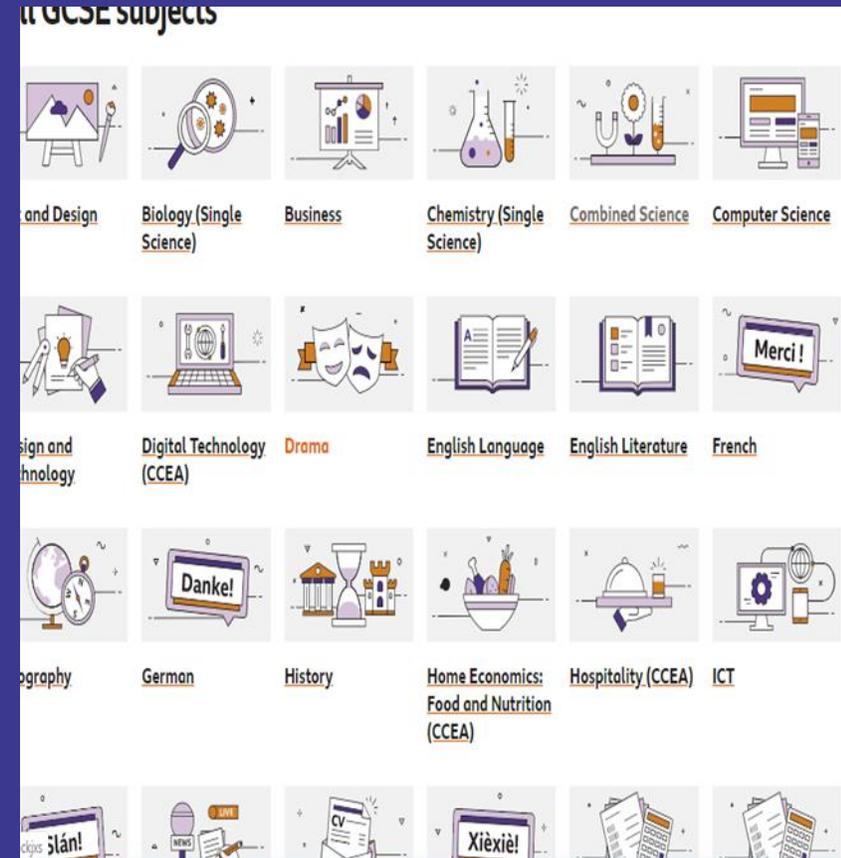
[GCSE Biology \(Single Science\) - AQA - BBC Bitesize](#)

Chemistry -

[GCSE Chemistry \(Single Science\) - AQA - BBC Bitesize](#)

Physics -

[GCSE Physics \(Single Science\) - AQA - BBC Bitesize](#)

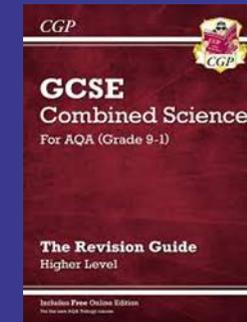
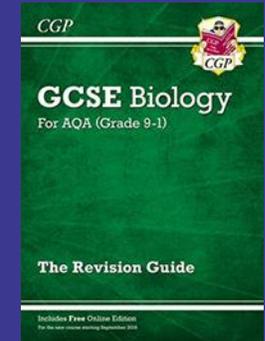
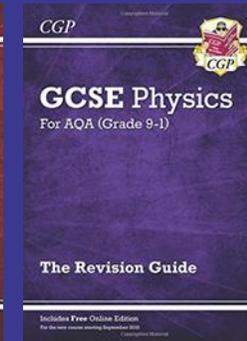
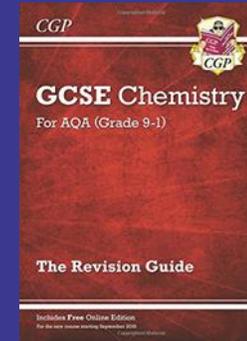


# Revision and self study support

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Youtube - Primrose Kitten, Free GCSE Science lessons, Crash Course in Science

CGP AQA GCSE revision guides - these are available from book shops and online retail sites



# How to revise in Science!

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Falls into 2 main parts - concepts and application

Revision of concepts	Revision of Application
<p>Online platforms - BBC bitesize quizzes, Seneca, video resources</p> <p>Use of the AQA syllabus to construct flashcards of key concepts / ideas</p> <p><a href="https://www.aqa.org.uk/subjects/science/gcse">https://www.aqa.org.uk/subjects/science/gcse</a></p> <p>Revision guide quick fire questions</p>	<p>Past papers and mark schemes available from AQA website</p> <p><a href="#">AQA   Find past papers and mark schemes</a></p> <p>Verbal questioning - explain “how and why?” “What does that mean?”</p> <p>Attend revision sessions and interventions!</p>