

Supporting your child through their Science GCSE

Supporting with Science revision

The AQA Trilogy Combined Science Examination entails 6 exams consisting of 2 biology exams, 2 chemistry and 2 physics exams spread over 6 different days. Each paper makes up 1/6 of the final mark.

There is specific content for each paper (see the box below). Students are either completing the foundation (grade 1-5) or higher paper (grade 4-9). All papers consist of a range of multiple choice questions, short answers and extended writing questions. There is a higher percentage of multiple choice questions on the foundation paper.

The most prepared students are those who are answering lots of questions as part of their revision and who are focusing on their areas of weakness as identified in the past practise exam papers. Students should also use the revision resources that their class teacher has shared with them, in particular the materials on BBC bitesize: [AQA Science trilogy](#)

Students should be allocating a daily revision slot for completing the science revision described above. Any problems they identify should be discussed with their teachers to help them develop their understanding and confidence. Parents can support by encouraging their child to revise and by monitoring that this is taking place. For example, ask them to show you their Seneca account so you can see the percentage of the revision packs that your child has completed.

The exams

We have been doing practise questions all year and the next mock exams start after half term
w/c 31st October 2022.

Final examination dates are TBC with the stated content for each examination listed:

Biology Paper 1 1h 15m May/June 2023

Cell Biology, Organisation, Infection and Response, Bioenergetics.

Biology Paper 2 1h 15m May/June 2023

Homeostasis and Response, Inheritance, Variation and Evolution, Ecology.

Chemistry Paper 1 1h 15m May/June 2023

Atomic Structure and the Periodic table, Bonding structure and the properties of matter, Quantitative Chemistry, Chemical Changes, Energy Changes.

Chemistry Paper 2 1h 15m May/June 2023

Rates of Reaction, Organic Chemistry, Chemical Analysis, Chemistry of the Atmosphere, Using Resources.

Physics Paper 1 1h 15m May/June 2023

Energy, Electricity, Particle model of matter, Atomic Structure

Physics Paper 2 1h 15m May/June 2023

Forces, Waves, Magnetism and Electromagnetism

Course details:

GCSE Trilogy Combined
Science Exam board: AQA
Specification: 8464
Website: [AQA | Science | GCSE | Combined Science: Trilogy](#)

Useful revision websites



Revision sessions

These usually take place on a Monday after school
2:45-3:45

What do I need to focus on to improve?

The topics to work on are highlighted on the assessment analysis sheets that are completed after each exam

paper in lesson...this is why the internal mock examinations are so important and require thorough preparation!

Formulae I must know for Physics

1	$(\text{final velocity})^2 - (\text{initial velocity})^2 = 2 \times \text{acceleration} \times \text{distance}$	$v^2 - u^2 = 2 a s$
2	elastic potential energy = $0.5 \times \text{spring constant} \times (\text{extension})^2$	$E_e = \frac{1}{2} k e^2$
3	change in thermal energy = mass \times specific heat capacity \times temperature change	$\Delta E = m c \Delta \theta$
4	period = $\frac{1}{\text{frequency}}$	
5	force on a conductor (at right angles to a magnetic field) carrying a current = magnetic flux density \times current \times length	$F = B I l$
6	thermal energy for a change of state = mass \times specific latent heat	$E = m L$
7	potential difference across primary coil \times current in primary coil = potential difference across secondary coil \times current in secondary coil	$V_p I_p = V_s I_s$

Formulae I must know for Chemistry...

Moles = Mass \div Mr

Concentration = Mass \div Volume

OR Concentration = Moles \div Volume

Rates of Reaction = Amount of starting material \div time

OR Rates of Reaction = Amount of Product \div time

8 Top Tips for Revising Science

1. Start revising early

— i.e. **months**, not days before the exam.

3. Set up a nice, tidy study space

You'll need somewhere with good lighting, your pens close by, your phone out of sight and your TV unplugged. Try not to revise on your bed, or you'll be dreaming of pink igloos and elephants before you

5. Do lots of practice papers and questions

You'll find it far easier to answer questions in the exam if you've tried similar ones at home beforehand. Your teacher will be giving you some in science lessons, but you can find more online.

7. Sleep and eat properly.

Sleep is more important than you'd imagine — it helps your brain store all the juicy information you've learned throughout the day. Drinking plenty of water and eating healthy foods will also boost your concentration throughout the day.

2. Plan your revision using a timetable

Planning out your revision means you can spend more time revising and less time worrying you've forgotten something.

4. Vary your revision with different activities

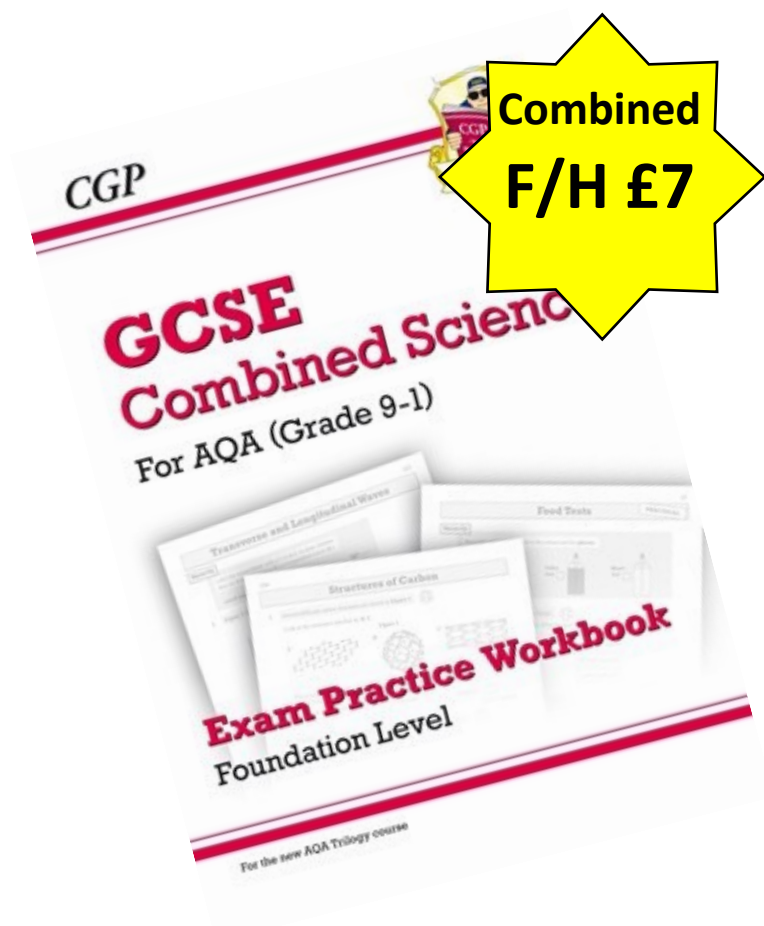
Try a variety of different revision techniques — answering practice questions, writing down notes from memory, and using revision guides, flash cards, mind maps, exam questions and online resources.

6. Keep your phone and other distractions away.

Phones are great, but they're a one-stop shop for procrastination. Heed our warnings and stick it in a drawer while you're revising.

8. Don't just read your notes

You have to **WRITE STUFF DOWN**. This is really basic "how to revise" stuff.



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