

WHY DO WE STUDY SCIENCE AT GCSE?

Science has given us society as we know it: medicine, architecture, even the screen that you're reading this on are all rooted in science.

Science allows us to think critically about the world around us, and empowers us with the skills and knowledge to make informed decisions.

Throughout the two-year GCSE, students will have plenty of opportunities to problem-solve, develop their skills in navigating scientific communication, further hone their working scientifically (practical) skills, and increase their knowledge of scientific phenomena.

WHAT DO WE STUDY IN SCIENCE IN YEAR 10?

Biology

Cell biology

Organisation

Infection and response

Bioenergetics

Chemistry

Atomic structure and the periodic table

Bonding, structure and the properties of matter

Quantitative chemistry

Chemical changes

Physics

Energy

Electricity

Particle model of matter

Atomic structure

Magnetism and electromagnetism

WHAT DO WE STUDY IN SCIENCE IN YEAR 11?

Biology

Homeostasis and response

Inheritance, variation and evolution

Ecology

Chemistry

Energy changes

The rate and extent of chemical change

Organic chemistry

Chemical analysis

Chemistry of the atmosphere

Using resources

Physics

Forces

Waves

HOW IS SCIENCE ASSESSED AT GCSE?

Six science papers:
Biology 1, Biology 2, Chemistry 1, Chemistry 2,
Physics 1, Physics 2.

Papers are Tiered: Higher and Foundation.

Each paper is worth 70 marks.

Each paper is worth 16.7% of your GCSE.

Each paper lasts 1 hour and 15 minutes.

Paper 1 content is generally taught in Year 10.

Paper 2 content is generally taught in Year 11.

AQA

Please write clearly in block capitals.

Centre number Candidate number

Surname _____
Forename(s) _____
Candidate signature _____
I declare this is my own work.

GCSE
COMBINED SCIENCE: TRILOGY **F**
Foundation Tier
Biology Paper 1F


Tuesday 16 May 2023 Morning Time allowed: 1 hour 15 minutes

Materials
For this paper you must have:
• a ruler
• a scientific calculator.

Instructions
• Use black ink or black ball-point pen.
• Pencil should only be used for drawing.
• Fill in the boxes at the top of this page.
• Answer all questions in the spaces provided.
• If you need extra space for your answer(s), use the lined pages at the end of this book. Write the question number against your answer(s).
• Do all rough work in this book. Cross through any work you do not want to be marked.
• In all calculations, show clearly how you work out your answer.

Information
• The maximum mark for this paper is 70.
• The marks for questions are shown in brackets.
• You are expected to use a calculator where appropriate.
• You are reminded of the need for good English and clear presentation in your answers.

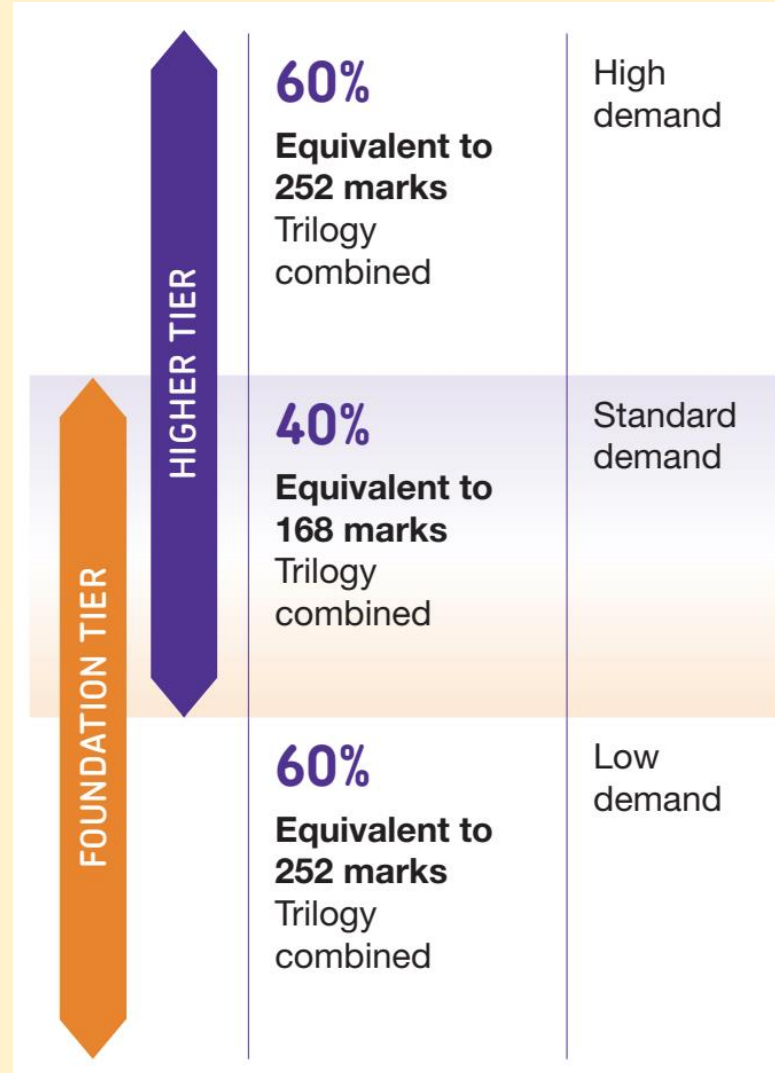
For Examiner's Use	
Question	Mark
1	
2	
3	
4	
5	
6	
7	
TOTAL	

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TIERING

Students who consistently demonstrate that they can grade 5 and above across the three subjects will, in discussion with their class teacher, be entered for the Higher tier.

Students who are thinking about pursuing A-Level Science, or other Science study post-16, will likely need to be entered for the Higher tier papers as most course providers stipulate a minimum of a grade 6 as an entry requirement.



Legacy GCSE science		Current GCSE science	
Foundation	Higher	Foundation	Higher
			9
	A*		8
	A		7
			6
	B		
		5	5
C	C	4	4
D	D	3	(3)
E	(E)		
		2	
		1	
U	U	U	U

WHERE CAN SCIENCE GCSE TAKE YOU?

Typical career paths:

Doctor
Dentist
Astronomer
Engineer
Biomedical scientist
Botanist
Archaeologist
Environmental scientist
Forensic scientist
Food scientist
Zoologist

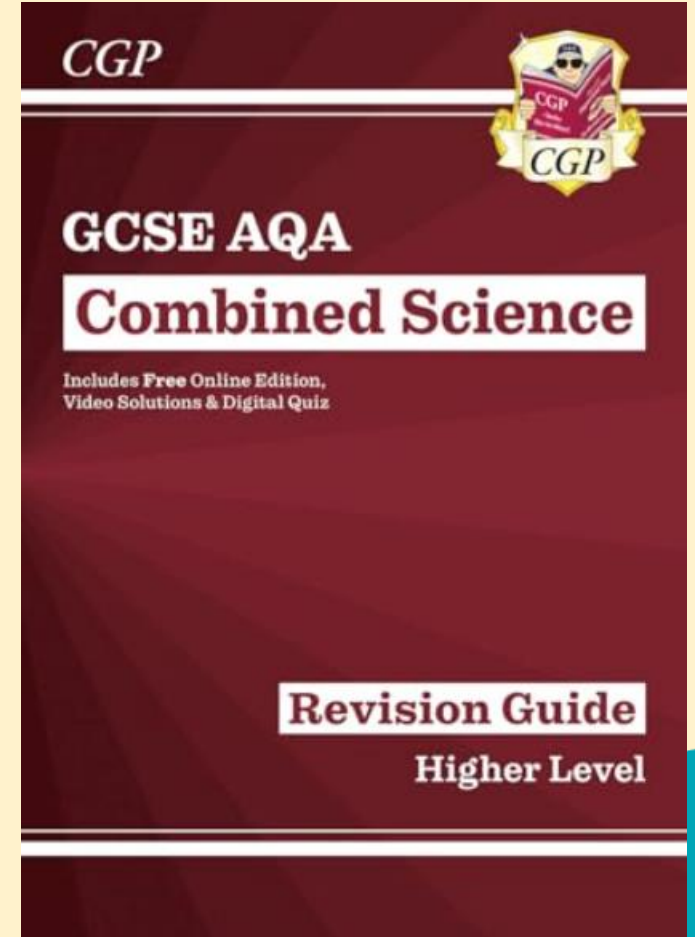
Key transferable skills:

Communication
Problem solving
Analysis
Curiosity
Observation
Evaluation
Investigation
Critical thinking
Data handling
Numeracy
Teamwork



WHAT CAN YOU DO TO SUPPORT YOUR CHILD TO SUCCEED IN SCIENCE?

- Know what effective revision looks like.
- Homework completion.
- Regular quizzing of Core Questions.
- Regular quizzing of key words.
- Timed completion of past papers or past paper questions.
- Purchase a revision guide (£6.25 from us).
- Provide a quiet space, away from distraction.



FOR FURTHER INFORMATION

- For further information:
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