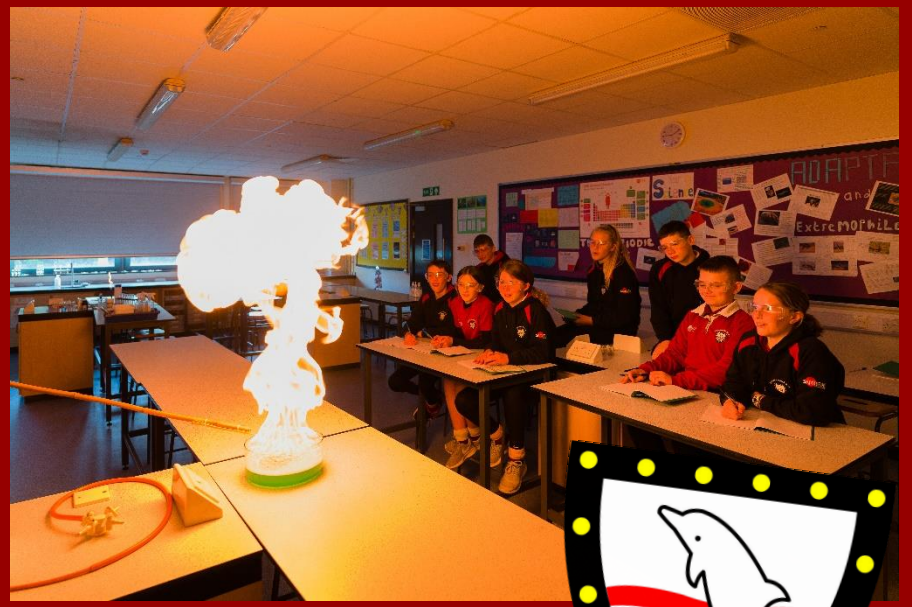
Welcome

GCSE Combined Science Revision



Exam Board: **AQA**

Course: **GCSE Combined Science**

TRILOGY 8464

AQA TRILOGY: GCSE Combined Science Exams

12th May 2026

Biology

Paper 1

70 marks

1 hour 15 min

18th May 2026

Chemistry

Paper 1

70 marks

1 hour 15 min

2nd June 2026

Physics

Paper 1

70 marks

1 hour 15 min

8th June 2026

Biology

Paper 2

70 marks

1 hour 15 min

12th June 2026

Chemistry

Paper 2

70 marks

1 hour 15 min

15th June 2026

Physics

Paper 2

70 marks

1 hour 15 min

AQA TRILOGY: GCSE Combined Science

Biology Paper 1

B1 = Cell structure and transport
B2 = Cell division
B3 = Organisation and the digestive system
B4 =Organising animals and plants
B5 = Communicable diseases
B6 = Preventing and treating disease
B7 = Non-communicable diseases
B8 = Photosynthesis
B9 = Respiration

Chemistry Paper 1

C1 = Atomic structure
C2 = The periodic table
C3 = Structure and bonding
C4 = Chemical calculations
C5 = Chemical changes
C6 = Electrolysis
C7 = Energy Changes

Physics Paper 1

P1 = Conservation and dissipation of energy
P2 = Energy transfer by heating
P3 = Energy resources
P4 = Electric circuits
P5 = Electricity in the home
P6 = Molecules and matter
P7 = Radioactivity

AQA TRILOGY: GCSE Combined Science

Biology Paper 2

B10 = The human nervous system
B11 = Hormonal co-ordination
B12 = Reproduction
B13 = Variation and evolution
B14 = Genetics and evolution
B15 = Adaptations, interdependence and competition
B16 = Organising an ecosystem
B17 = Biodiversity and ecosystems

Chemistry Paper 2

C8 = Rates and equilibrium
C9 = Crude oil and fuels
C10 = Chemical analysis
C11 = The Earth's atmosphere
C12 = The Earth's resources

Physics Paper 2

P8 = Forces in balance
P9 = Motion
P10 = Forces and motion
P11 = Wave properties
P12 = Electromagnetic waves
P13 = Electromagnetism

GCSE Combined Science

Double Award Grading System

Students sit all 6 exams at the end of Year 11.

The scores from all 6 papers are added up to give a mark out of 420.

This score generates the science double award grade.

Tiers of Entry

Higher Tier - Students can be awarded grades from 9-9 to 4-3

Foundation tier- Students can be awarded grades from 5-5 to 1-1

Year 11 Mock Exams

w/c Monday 3rd November Paper 1 Biology, Paper 1 Chemistry, Paper 1 Physics

w/c Monday 23rd February Paper 2 Biology, Paper 2 Chemistry, Paper 2 Physics

Past papers and mark schemes are available from www.aqa.org

GCSE Combined Science: Trilogy 8464

Specification | Planning resources | Teaching resources | **Assessment resources** | Key dates

Hide filters

1 2 3 4 >

Relevance

Items per page 10

Search resources

Showing 474 results

Resource Type

- Centre Declaration Forms (4)
- Examiner Reports (51)
- Examiners Reports (12)
- Grade Descriptors (1)
- Mark Schemes (86)
- Notes and Guidance (4)
- Practice Questions (2)
- Question Papers (313)

Component Code

WEB **Using our assessment tools to plan and teach**
/resources/assess/using-our-assessment-tools
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Biology - Question paper (Foundation) : Paper 1 Biology - June 2023
Published 07 Dec 2024 | 1.58 MB | PDF
Add to favourites

NEW
Science - Question paper (Higher): Paper 1 Biology - June 2024
Published 11 Jul 2025 | 1.85 MB | PDF
Add to favourites

NEW
Science - Question paper (Higher): Paper 1 Physics - June 2024
Published 11 Jul 2025 | 1.91 MB | PDF
Add to favourites

NEW
Science - Question paper (Higher): Paper 1 Chemistry - June 2024

Question Style

Mixture of multiple choice, structured, closed short answer, and open response.

There are 21 Required Practicals across the 3 disciplines. Students will be examined on a selection of these practicals.

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 2F

Friday 9 June 2023 Afternoon 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.

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

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.

8464/B/2F

Q1.

A student wants to calculate the density of the two objects shown in the figure below.

Metal cube **Small statue**

Describe the methods that the student should use to calculate the densities of the two objects.

(Total 6 marks)

Physics Equations Sheet

GCSE Combined Science: Trilogy (8464) and GCSE Combined Science: Synergy (8465)

FOR USE IN JUNE 2023 ONLY

HT = Higher Tier only equations

	kinetic energy = 0.5 × mass × (speed)^2	$E_k = \frac{1}{2} m v^2$
	elastic potential energy = 0.5 × spring constant × (extension)^2	$E_e = \frac{1}{2} k e^2$
	gravitational potential energy = mass × gravitational field strength × height	$E_p = m g h$
	change in thermal energy = mass × specific heat capacity × temperature change	$\Delta E = m c \Delta\theta$
	power = $\frac{\text{energy transferred}}{\text{time}}$	$P = \frac{E}{t}$
	power = $\frac{\text{work done}}{\text{time}}$	$P = \frac{W}{t}$
	efficiency = $\frac{\text{useful output energy transfer}}{\text{total input energy transfer}}$	
	efficiency = $\frac{\text{useful power output}}{\text{total power input}}$	
	charge flow = current × time	$Q = I t$
	potential difference = current × resistance	$V = I R$
	power = potential difference × current	$P = V I$
	power = (current)^2 × resistance	$P = I^2 R$
	energy transferred = power × time	$E = P t$
	energy transferred = charge flow × potential difference	$E = Q V$
HT	**potential difference across primary coil × current in primary coil = potential difference across secondary coil × current in secondary coil**	$\boldsymbol{V_p I_p = V_s I_s}$
	density = $\frac{\text{mass}}{\text{volume}}$	$\rho = \frac{m}{V}$
	thermal energy for a change of state = mass × specific latent heat	$E = m L$
	weight = mass × gravitational field strength	$W = m g$
	work done = force × distance (along the line of action of the force)	$W = F s$
	force = spring constant × extension	$F = k e$
	distance travelled = speed × time	$s = v t$
	acceleration = $\frac{\text{change in velocity}}{\text{time taken}}$	$a = \frac{\Delta v}{t}$
	(final velocity)^2 – (initial velocity)^2 = 2 × acceleration × distance	$v^2 - u^2 = 2 a s$
	resultant force = mass × acceleration	$F = m a$
HT	**momentum = mass × velocity**	$\boldsymbol{p = m v}$
	period = $\frac{1}{\text{frequency}}$	$T = \frac{1}{f}$
	wave speed = frequency × wavelength	$v = f \lambda$
HT	**force on a conductor (at right angles to a magnetic field) carrying a current = magnetic flux density × current × length**	$\boldsymbol{F = B I l}$

Turn over ►

Physics Equations Sheet –
GCSE Combined Science: Trilogy (8464) and GCSE Combined Science: Synergy (8465)
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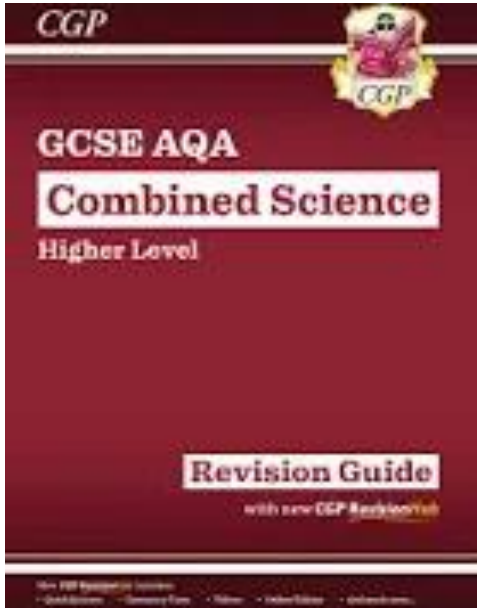
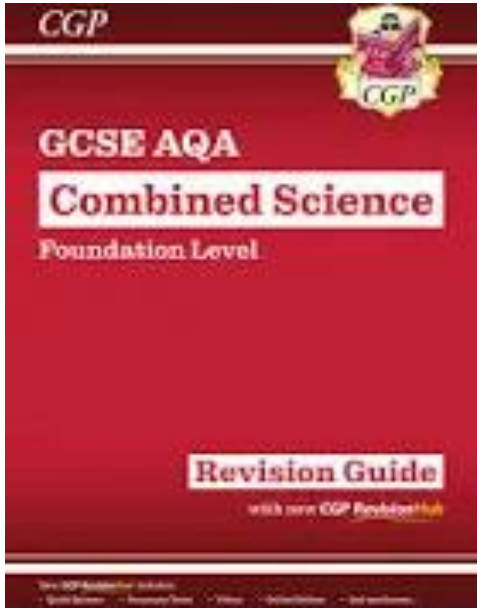
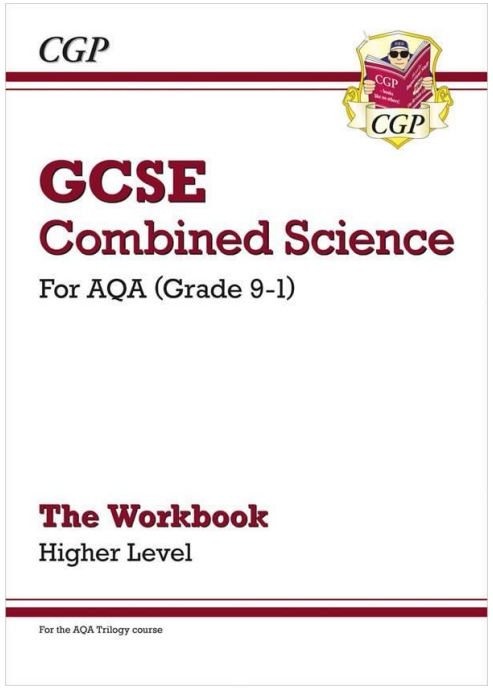




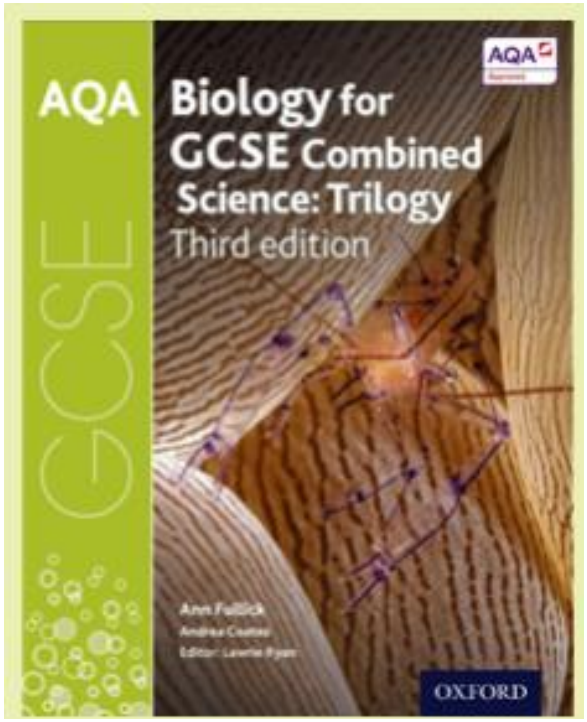


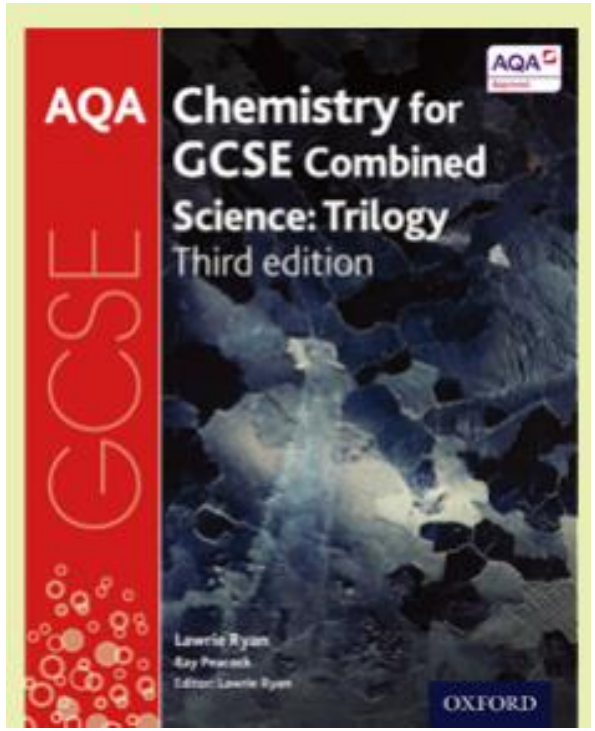
Revision guides available on ParentPay for £6.75 each

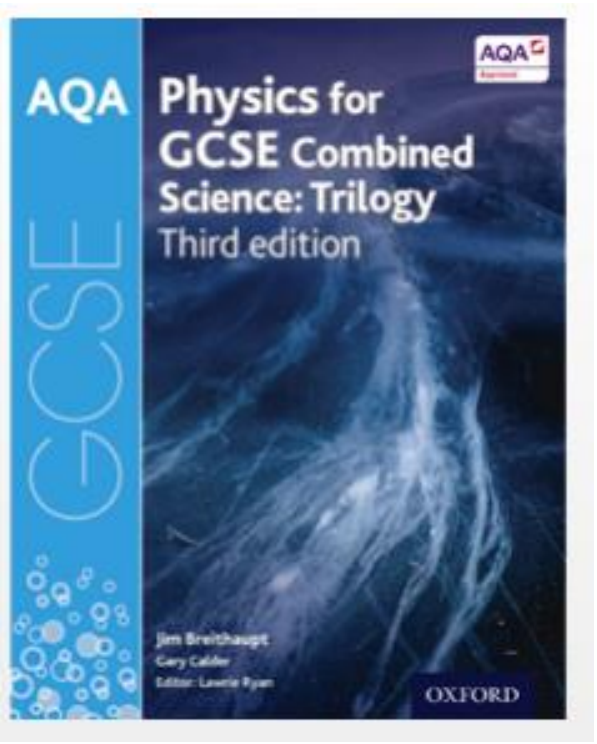
Workbooks also available on ParentPay for £7.75 each

www.kerboodle.com

Online textbooks are available to view on the Kerboodle website

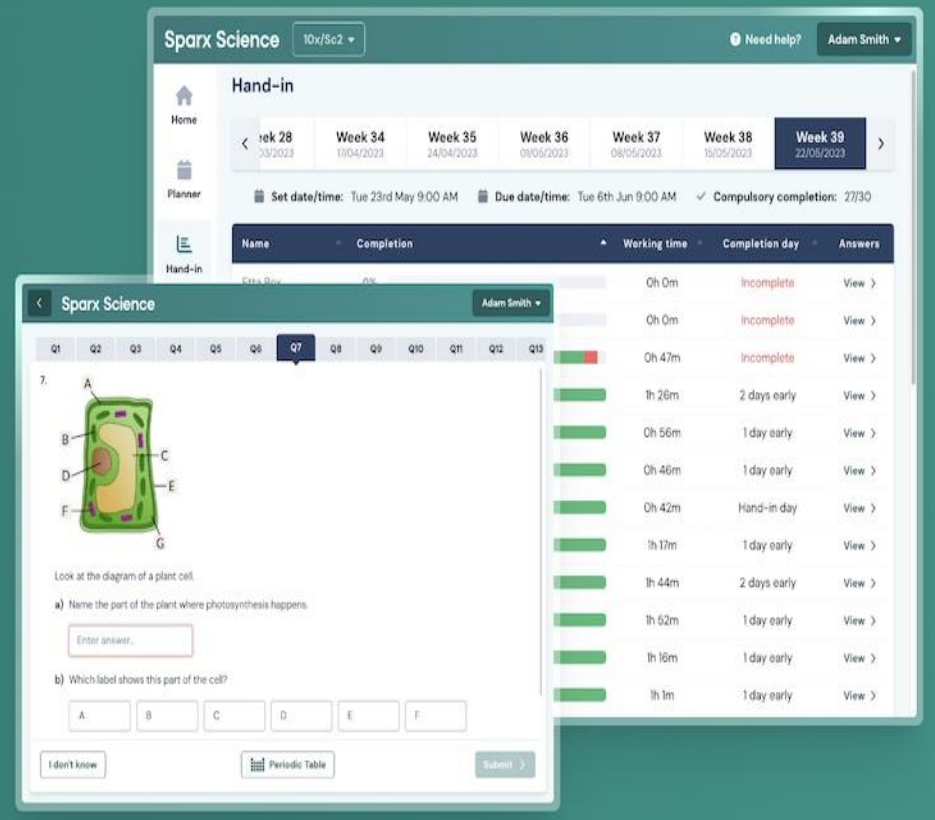




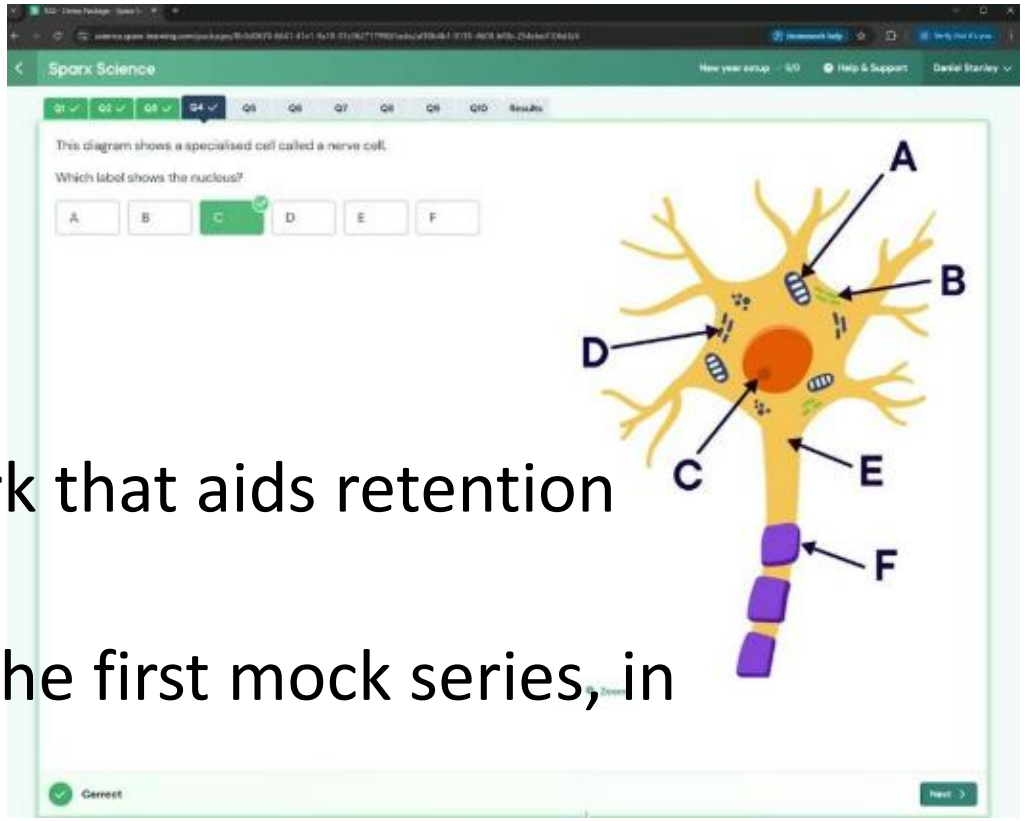


Sparx Science

Personalised
science homework
for every student



What is Sparx Science?



- Sparx Science provides personalised homework that aids retention and recall.
- Teachers will set topics that are coming up in the first mock series, in November.
- Sometimes science questions may challenge students, however where this is the case Sparx provides unique support to fill knowledge gaps or guide them through application of scientific ideas.

How can you help?

- Provide a quiet space for your child to focus on their homework, minimising distractions where possible.
- Encourage your child to start their homework early so they can get support before the deadline if they are stuck.
- Sparx Science will automatically adjust the level of questions based on your child's answers, please try not to answer the questions for them, instead ensure they are carefully reading the support and using this information to answer the questions.

Key details

- Students log in at app.sparx-learning.com. They will need to find their school and log in using their Sparx Maths details.

- Homework will be handed out on Tuesday every week, and collected on Monday

- Each Sparx Science homework should take 1 hour.

After School Science Revision Classes

Every Monday 3pm-4pm starting this Monday 22nd September.