

Science GCSE Exams

Information and Advice for Productive
and Effective Revision

Trust, Inclusivity, Resilience, Aspiration

Dates for the 2026 Triple and Combined Science exams:

AQA Biology Paper 1: Tuesday 12th of May
AQA Chemistry Paper 1: Monday 18th of May

Half Term - 25th May - 29th May

AQA Physics Paper 1: Tuesday 2nd of June
AQA Biology Paper 2: Monday 8th of June
AQA Chemistry Paper 2: Friday 12th of June
AQA Physics Paper 2: Monday 15th June

Length of each paper

**Triple Science: 1 hour and 45 minutes
(100 marks)**

**Combined Science exams 1 hour and 15 minutes
(75 marks)**

Biology paper 1 - Topics 1,2,3,4 *revision guide*
chapters B1 to B10

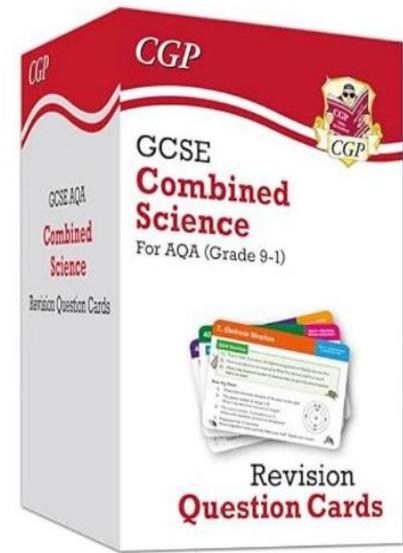
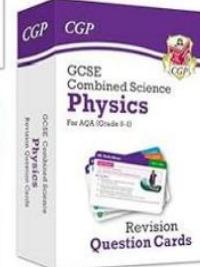
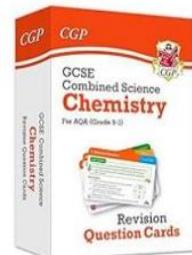
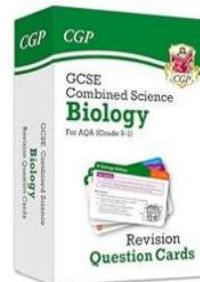
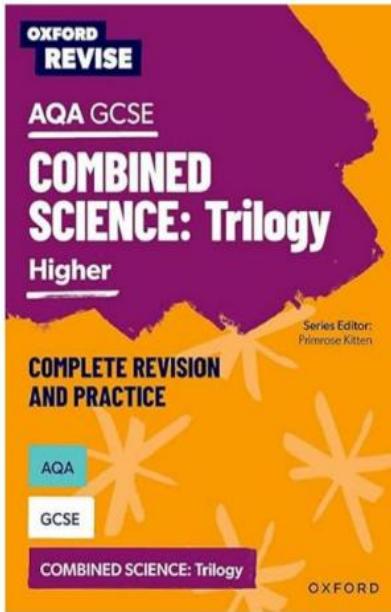
Chemistry paper 1 - Topics 1,2,3,4,5 *revision guide*
chapters C1 to C8

Physics paper 1 - Topics 1,2,3,4 *revision guide*
chapters P1 to P7

Biology paper 2 – Topics 5,6,7 *revision guide*
chapters B11 to B18

Chemistry paper 2 - Topics 6,7,8,9,10 *revision*
guide chapters C9 to C14

Physics paper 2 - Topics 5,6,7 *revision guide*
chapters P8 to P12



You may already have some or all of these

The Oxford Revise Complete Revision and Practice books are a good resource as they have lots of practice questions to attempt

CGP Flash cards

A ready-made set of flash cards for Triple or Combined Science. Great tool for individual or co-revision.

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Please write clearly in block capitals.

Centre number

Candidate number

Surname _____

Forename(s) _____

Candidate signature _____

I declare this is my own work.

GCSE CHEMISTRY

Higher Tier Paper 1

H

Monday 19 May 2025 Morning Time allowed: 1 hour 45 minutes

Materials

For this paper you must have:

- a ruler
- a scientific calculator
- the periodic table (enclosed).

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. Do not write outside the box around each page or on blank pages.
- 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.

Information

- The maximum mark for this paper is 100.
- The marks for questions are shown in brackets.
- You are expected to use a calculator where appropriate.
- In all calculations, show clearly how you work out your answer.
- 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	
8	
9	
TOTAL	

3

6116 Which homologous series has C_2H_6 as a member?
Tick (✓) one box. [1 mark]

Alcohols

Akhanes

Akhenes A

Carboxylic acids

6117 Atmospheric pollutants are formed when C_2H_6 undergoes incomplete combustion.
Complete the sentences.
Choose answers from the box. [2 marks]

ammonia carbon monoxide coal
soot sulfur sulfur dioxide

The solid atmospheric pollutant formed during incomplete combustion of C_2H_6 is _____.

The gaseous atmospheric pollutant formed during incomplete combustion of C_2H_6 is _____.

6118 Petrol contains C_2H_6 .
Petrol is burned in car engines.
What general name is used to describe petrol when petrol is burned to release energy? [1 mark]

Question 1 continues on the next page

4

6117 Atmospheric pollutants are formed when C_2H_6 undergoes incomplete combustion.
Complete the sentences.
Choose answers from the box. [2 marks]

ammonia carbon monoxide coal
soot sulfur sulfur dioxide

The solid atmospheric pollutant formed during incomplete combustion of C_2H_6 is _____.

The gaseous atmospheric pollutant formed during incomplete combustion of C_2H_6 is _____.

6118 A different organic compound (C_2H_6) can be broken down to produce C_2H_4 and one other compound.
Complete the equation for the reaction. [1 mark]

$$\text{C}_2\text{H}_{26} \rightarrow \text{C}_2\text{H}_{14} + \text{C}_2\text{H}_4$$

Question	Answers	Extra information	Mark	AO / Spec. Ref.
614	alkanes		1	AO2 4.7.1.1

Question	Answers	Extra information	Mark	AO / Spec. Ref.
618	$\text{H}_2\text{C}=\text{CH}-\text{CH}=\text{CH}-\text{CH}=\text{CH}-\text{CH}=\text{CH}-\text{CH}=\text{CH}_2$		1	AO2 4.7.1.1

MARK SCHEME – GCSE CHEMISTRY – 8462/09 – JUNE 2024

Question	Answers	Extra information	Mark	AO / Spec. Ref.
616	fuel	allow fossil fuel	1	AO1 4.7.1.3
617	soot	carbon monoxide	1	AO1 4.9.3.1
618	C_2H_6		1	AO2 4.7.1.4

[AQA GCSE Biology Past Papers \[PDFs & Mark Schemes\]](#)

[AQA GCSE Chemistry Past Papers \[PDFs & Mark Schemes\]](#)

[AQA GCSE Physics Past Papers \[PDFs & Mark Schemes\]](#)



JUN 25 8462 1 H 01

8462/1H

IB/M/Jun25/G4007/E11

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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

H

Higher Tier Physics Paper 2H

Monday 16 June 2025

Morning

Time allowed: 1 hour 15 minutes

Materials

For this paper you must have:

- a protractor
- a ruler
- a scientific calculator
- the Physics Equations Sheet (enclosed).

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	
TOTAL	



IB/M/Jun25/G4007/E9

8464/P/2H

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3

Q1.6 Which homologous series has C_6H_{14} as a member?
Tick (✓) one box.

Alcohols

Akane

Akene

Carboxylic acids

[1 mark]

4

Q1.7 Atmospheric pollutants are formed when C_6H_{14} undergoes incomplete combustion.
Complete the sentences.
Choose answers from the box.

ammonia	carbon monoxide	coal
soot	sulfur	sulfur dioxide

The solid atmospheric pollutant formed during incomplete combustion of C_6H_{14} is _____.

The gaseous atmospheric pollutant formed during incomplete combustion of C_6H_{14} is _____.

Q1.8 A different organic compound (C_2H_6) can be broken down to produce CH_4 and one other compound.
Complete the equation for the reaction.

$$C_2H_6 \rightarrow CH_4 + C_2H_2$$

[1 mark]

Turn over ▶

Barcode for the next page

Question	Answers	Extra information	Mark	AO / Spec. Ref.
Q1.4	alkanes		1	AO2 4.7.1.1
Q1.8	$\begin{array}{c} H \\ \\ H-C-C-C-C-H \\ \\ H \end{array}$		1	AO2 4.7.1.1

Question	Answers	Extra information	Mark	AO / Spec. Ref.
Q1.6	fuel	allow fossil fuel	1	AO1 4.7.1.3
Q1.7	soot	carbon monoxide	1	AO1 4.9.3.1
Q1.8	C_2H_2		1	AO2 4.7.1.4

[AQA GCSE Combined Science: Trilogy Past Papers \[PDFs & Mark Schemes\]](#)

MARK SCHEME – GCSE CHEMISTRY – 8464/2H – JUNE 2024

How to use past papers to revise

1. Attempt a practice paper. Complete all possible questions.
2. Use the official mark scheme to mark and correct answers, paying careful attention to key vocabulary or phrasing required to get the mark.
*E.g. in an answer to describe the effects of climate change, stating flooding would score zero marks. You would need to say **more flooding** as flooding happens anyway; climate change will just make it more frequent or extreme.*
3. Any questions that were left blank- make a note and then use revision resources to study this area and review the mark scheme.
4. Attempt the paper again. Aim to improve your answers/scores until you have achieved the score you are happy with.

3
When homologous series has **C₆H₅** as a member?
1 mark
Alcohols
Alkenes
Alkynes
Carboxylic acids

4
Atmospheric pollutants are formed when **C₆H₆** undergoes incomplete combustion.
Choose answers from the box.
1 mark
ammonia
carbon monoxide
coal smoke
heat
soot
sulphur dioxide

5
Complete Figure 1 to show the displayed structural formula of **C₆H₆**.
2 marks
Figure 1
$$\begin{array}{ccccccc} \text{H} & \text{H} & \text{H} & \text{H} & \text{H} & \text{H} \\ | & | & | & | & | & | \\ \text{H} & \text{C} & \text{C} & \text{C} & \text{C} & \text{C} & \text{H} \\ | & | & | & | & | & | \\ \text{H} & \text{H} & \text{H} & \text{H} & \text{H} & \text{H} \end{array}$$

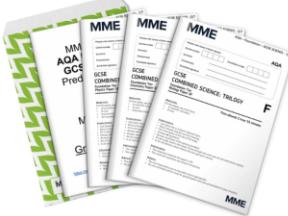
6
When complete **C₆H₆** can be broken down to produce **C₂H₄** and one other compound.
Complete the equation for the reaction.
1 mark
$$\text{C}_6\text{H}_6 \rightarrow \text{C}_2\text{H}_4 + \text{C}_4\text{H}_6$$

Question 1 continues on the next page

Turn over

MARK SCHEME – GCSE CHEMISTRY – BANISTER – JUNE 2015

Question	Answers	Extra information	Mark	ADJ – Score Ref.
6.1.6	ethene		1	ADZ 4.7.1.1
6.1.7	soot		1	ADZ 4.5.3.1
6.1.8	carbon monoxide		1	ADZ 4.7.1.1
6.1.9	C ₂ H ₄		1	ADZ 4.7.1.1



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Other key areas of revision

Each paper will have several required practical questions.

They make up 15% of the marks on each paper. They are most commonly asked to write a method for this experiment.

- Watch the videos on free science lessons and Malmsbury Education on each required practical.
- Make notes and then see if you can write a method from memory.
- If not, rewatch and try again until you can. Remember CIDER for methods

Control variables

Independent variable

Dependent variables

Equipment and steps

Repeats and mean

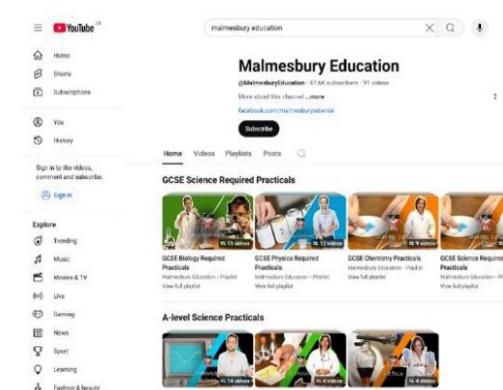
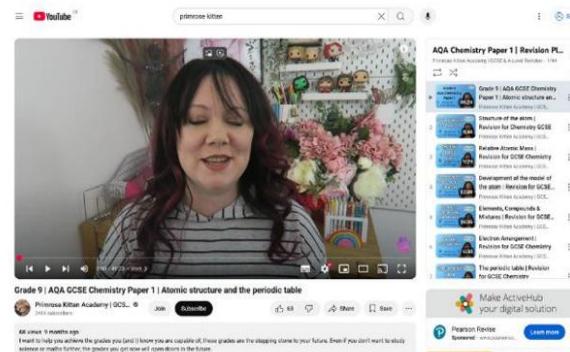
Good places to find revision material:

[GCSE Revision Videos | freesciencelessons](https://www.freesciencelessons.com/)

[173\) Primrose Kitten Academy | GCSE & A-Level Revision – YouTube](https://www.youtube.com/primrose_kitten_academy)

[Free Maths & Science Revision and Past Papers for A-Level, GCSE and KS3 | Cognito](https://www.youtube.com/c/CognitoEducation)

[173\) Malmesbury Education - YouTube](https://www.youtube.com/c/MalmesburyEducation)



Revision through homework



Pupils receive weekly homework through the Carousel Learning Platform. This include flashcards to revise areas of knowledge and then a quiz to take. Pupils then self-mark the answers to see where they need to improve.

As we get nearer the exams, we will post larger optional revision quizzes for each paper for pupils to use.

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Social Media support

- [I Bet You Don't Know These Chemistry Basics](#) 

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Cognito



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Approximate grade boundaries

To be successful in GCSE Science you don't need to get every question correct. These are the grade boundaries from science exams for the past few years and the average.

Combined H

Year	9-9	9-8	8-8	8-7	7-7	7-6	6-6	6-5	5-5	5-4	4-4	4-3
2025	71	67	63	58	54	49	44	39	33	28	23	20
2024	69	64	60	55	51	46	41	36	32	27	22	20
2023	69	65	61	56	52	47	43	38	33	28	24	21
2019	64	60	56	51	47	43	38	34	29	25	21	19
Average	68.3	64.0	60.0	55.0	51.0	46.3	41.5	36.8	31.8	27.0	22.5	20.0

Combined Foundation

Year	5-5	5-4	4-4	4-3	3-3	3-2	2-2	2-1	1-1
2025	65	60	55	48	41	35	28	21	15
2024	63	58	54	47	41	34	28	21	15
2023	64	60	55	48	41	35	28	22	15
2019	56	53	48	41	35	28	22	16	10
Average	62.0	57.8	53.0	46.0	39.5	33.0	26.5	20.0	13.8

Approximate grade boundaries

To be successful in GCSE Science you don't need to get every question correct. These are the grade boundaries from science exams for the past few years and the average.

Biology

Year	9	8	7	6	5	4	3
2025	71	64	57	47	38	28	23
2024	71	63	56	45	35	24	19
2023	66	59	52	43	35	26	22
2019	67	60	54	45	36	28	23
Average	68.0	60.7	54.0	44.3	35.3	26.0	21.3

Chemistry

Year	9	8	7	6	5	4	3
2025	75	66	58	45	33	21	15
2024	75	65	56	45	34	23	18
2023	75	66	57	46	35	24	19
2019	72	63	54	44	35	25	20
Average	74.3	65.0	56.3	45.0	34.3	23.3	18.0

Physics

Year	9	8	7	6	5	4	3
2025	76	70	63	54	44	35	31
2024	76	68	61	52	43	34	29
2023	74	67	60	51	42	34	29
2019	72	63	54	45	35	26	21
Average	75.0	67.0	60.0	51.0	41.0	32.0	27.0

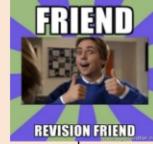
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Support from the Science Faculty

Nearer exam season the Science Faculty revision support timetable will be released to pupils.

This includes dates and times where staff are available outside of school hours to help with revision.

Including: After school drop-in sessions, Saturday online revision sessions, Sunday mornings at McDonald's

Week beginning 26th May Half Term	KNL Combined Science SH 10- <u>12pm</u>	RON Triple Science CH 10- <u>12pm</u>	AWI Triple science SH <u>2-4pm</u>		THT Combined Science 10-12	 FRIEND REVISION FRIEND	
Week beginning 2nd June [1]		SH THT 3-4 Biology paper 2 (foundation)	SH JLN 3- <u>4pm</u> Biology Paper 2	SH CCD 3- <u>4.30pm</u> Biology Paper 2	Ch RON + AWN 3- <u>4pm</u> SH AWI 3- <u>4pm</u> Biology paper 2	Saturday sesh 11 am -12.30am Virtual revision session KNL	Revision @  8:30- 10 am KNL
Week beginning 9th June [2]	Breakfast session with your normal class teacher 8-8:55 Biology paper 2 exam morning	SH THT 3-4 Chemistry paper 2 (foundation)	SH JLN 3- <u>4pm</u> Chemistry Paper 2 SH AWI 3- <u>4pm</u> Chemistry paper 2	Evening revision session 3-7 pm Sh KNL (CCD 3 - 4.30 pm) 3-6 pm Ch RON + EST 3-4	Breakfast session with your normal class teacher 8-8:55 Chemistry paper 2 exam Morning	Saturday sesh 11 am -12.30am Virtual revision session KNL	Revision @  8:30- 10 am KNL
Week beginning 16th June [1]	Breakfast session with your normal class teacher 8- 8:55 Physics paper 2 exam Morning IT'S OVER!!!!!!	 THE FEELING WHEN YOU HAVE FINISHED ALL YOUR EXAMS		 FREEDOM!			D OL

True

Contact

- Any questions or advice
- kev.neil@crestwood.hants.sch.uk