

GCSE Science

AQA



Trilogy and Separate Science (Option)

Mr Parkinson

Mrs Tankard

Miss Bryson

Miss Sherwood

Mrs Le Marrec



AQA TRILOGY (FOR ALL)



Biology

- Cell biology
- Organisation
- Infection and response
- Bioenergetics
- Homeostasis and response
- Inheritance, variation and evolution
- Ecology

Chemistry

- Atomic structure and the periodic table
- Bonding, structure, and the properties of matter
- Quantitative chemistry
- Chemical changes
- Energy changes
- The rate and extent of chemical change
- Organic chemistry
- Chemical analysis
- Chemistry of the atmosphere
- Using resources

Physics

- Energy
- Electricity
- Particle model of matter
- Atomic structure
- Forces
- Waves
- Magnetism and electromagnetism



Physics Paper 1
What's assessed
Physics topics 18–21: Energy; Electricity; Particle model of matter; and Atomic structure.
How it's assessed
<ul style="list-style-type: none"> • Written exam: 1 hour 15 minutes • Foundation and Higher Tier • 70 marks • 16.7% of GCSE
Questions
Multiple choice, structured, closed short answer, and open response.



Physics Paper 2
What's assessed
Physics topics 22–24: Forces; Waves; and Magnetism and electromagnetism.
How it's assessed
<ul style="list-style-type: none"> • Written exam: 1 hour 15 minutes • Foundation and Higher Tier • 70 marks • 16.7% of GCSE
Questions
Multiple choice, structured, closed short answer, and open response.

Biology Paper 1
What's assessed
Biology topics 1–4: Cell Biology; Organisation; Infection and response; and Bioenergetics.
How it's assessed
<ul style="list-style-type: none"> • Written exam: 1 hour 15 minutes • Foundation and Higher Tier • 70 marks • 16.7% of GCSE
Questions
Multiple choice, structured, closed short answer, and open response.



Biology Paper 2
What's assessed
Biology topics 5–7: Homeostasis and response; Inheritance, variation and evolution; and Ecology.
How it's assessed
<ul style="list-style-type: none"> • Written exam: 1 hour 15 minutes • Foundation and Higher Tier • 70 marks • 16.7% of GCSE
Questions
Multiple choice, structured, closed short answer, and open response.

Chemistry Paper 1
What's assessed
Chemistry topics 8–12: Atomic structure and the periodic table; Bonding, structure, and the properties of matter; Quantitative chemistry; Chemical changes; and Energy changes.
How it's assessed
<ul style="list-style-type: none"> • Written exam: 1 hour 15 minutes • Foundation and Higher Tier • 70 marks • 16.7% of GCSE
Questions
Multiple choice, structured, closed short answer, and open response.



Chemistry Paper 2
What's assessed
Chemistry topics 13–17: The rate and extent of chemical change; Organic chemistry; Chemical analysis; Chemistry of the atmosphere; and Using resources.
How it's assessed
<ul style="list-style-type: none"> • Written exam: 1 hour 15 minutes • Foundation and Higher Tier • 70 marks • 16.7% of GCSE
Questions
Multiple choice, structured, closed short answer, and open response.

Assessments – 6 Papers



AQA SEPARATE SCIENCES (TRIPLE)

Biology

- Cell biology
- Organisation
- Infection and response
- Bioenergetics
- Homeostasis and response
- Inheritance, variation and evolution
- Ecology
- Key ideas

Paper 1

What's assessed

Topics 1–4: Cell biology; Organisation; Infection and response; and Bioenergetics.

How it's assessed

- Written exam: 1 hour 45 minutes
- Foundation and Higher Tier
- 100 marks
- 50% of GCSE

Questions

- Multiple choice, structured, closed short answer and open response.



Paper 2

What's assessed

Topics 5–7: Homeostasis and response; Inheritance, variation and evolution; and Ecology.

How it's assessed

- Written exam: 1 hour 45 minutes
- Foundation and Higher Tier
- 100 marks
- 50% of GCSE

Questions

- Multiple choice, structured, closed short answer and open response.



AQA SEPARATE SCIENCES (TRIPLE)

Chemistry

- Atomic structure and the periodic table
- Bonding, structure, and the properties of matter
- Quantitative chemistry
- Chemical changes
- Energy changes
- The rate and extent of chemical change
- Organic chemistry
- Chemical analysis
- Chemistry of the atmosphere
- Using resources

Paper 1:

What's assessed

Topics 1–5: Atomic structure and the periodic table; Bonding, structure, and the properties of matter; Quantitative chemistry, Chemical changes; and Energy changes.

How it's assessed

- Written exam: 1 hour 45 minutes
- Foundation and Higher Tier
- 100 marks
- 50% of GCSE

Questions

- Multiple choice, structured, closed short answer and open response.



Paper 2:

What's assessed

Topics 6–10: The rate and extent of chemical change; Organic chemistry; Chemical analysis, Chemistry of the atmosphere; and Using resources.

How it's assessed

- Written exam: 1 hour 45 minutes
- Foundation and Higher Tier
- 100 marks
- 50% of GCSE

Questions

- Multiple choice, structured, closed short answer and open response.



AQA SEPARATE SCIENCES (TRIPLE)

Physics

- Energy
- Electricity
- Particle model of matter
- Atomic structure
- Forces
- Waves
- Magnetism and electromagnetism
- Space physics (physics only)

Paper 1:

What's assessed

Topics 1-4: Energy; Electricity; Particle model of matter; and Atomic structure.

How it's assessed

- Written exam: 1 hour 45 minutes
- Foundation and Higher Tier
- 100 marks
- 50% of GCSE

Questions

- Multiple choice, structured, closed short answer and open response.



Paper 2:

What's assessed

Topics 5-8: Forces; Waves; Magnetism and electromagnetism; and Space physics.

Questions in paper 2 may draw on an understanding of energy changes and transfers due to heating, mechanical and electrical work and the concept of energy conservation from Energy and Electricity.

How it's assessed

- Written exam: 1 hour 45 minutes
- Foundation and Higher Tier
- 100 marks
- 50% of GCSE

Questions

- Multiple choice, structured, closed short answer and open response.





Triple Science Assessment – 6 Papers

2 for Each Science

1hr 45 Per Paper

3 GCSEs Awarded





Pathways and Career Opportunities

Post 16 Pathways Include:

Level 3 BTEC Course or A level in:

- Biology
- Chemistry
- Physics
- Level 3 Diplomas in; Applied Human Biology, Applied Science Extended Certificate

Apprenticeships in:

- Aerospace Software Engineer
- Broadcast and Systems Engineer
 - Clinical Coder
 - Ecologist
- Animal Care and Welfare

[Science \(apprenticeshipguide.co.uk\)](http://apprenticeshipguide.co.uk)



Career Opportunities



Microbiologist

Astronomer

Nanotechnologist

Biomedical engineer

Neuroscientist

Biomedical scientist

Oceanographer

Clinical psychologist

Pharmacologist

Clinical research associate

- There are many career opportunities that Science will unlock.
- Please use this link for information on further opportunities:
- [Science and pharmaceuticals job profiles | Prospects.ac.uk](#)

Any Questions?

Mr Parkinson
Head of Science
Faculty



Mrs Tankard
2nd in Science
Faculty

