

# GCSE Science

## AQA



# Trilogy and Separate Science (Option)

Mrs Pashler

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# 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**

- 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**

- 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**

- 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**

- 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**

- 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**

- 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?

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