



# GCSE Science

## Compulsory Subject

### AQA Combined Science Trilogy

#### Description

The combined Science course is designed to develop scientific knowledge as well as to build a conceptual understanding of Science. This specification allows students to develop their understanding of nature and the processes behind many of the questions we may have about the world around us. Furthermore, it allows students to study all three sciences whilst also conducting compulsory practical elements that aim to help students develop and learn how to apply observational, practical, enquiry and problem-solving skills in both the laboratory and the field. Students will build upon their ability to evaluate claims based on Science through critical analysis of the methodology, evidence and conclusions based on both qualitative and quantitative data. The topics covered are outlined in the table below:

Biology	Chemistry	Physics
Cell Biology	Atomic structure and the Periodic Table	Forces
Organisation of systems	Bonding, structure and the properties of matter	Energy
Infection and Response	Quantitative chemistry	Waves
Bioenergetics	Chemical Changes	Electricity
Homeostasis and response	The rate and extent of chemical change	Magnetism and Electromagnetism
Inheritance, variation and evolution	Organic Chemistry	Particle model of matter
Ecology	Chemical analysis	Atomic structure
	Chemistry of the Atmosphere	
	Using the World's resources	

#### Assessment

The AQA Combined Science Trilogy qualification will require students to sit six externally marked examination papers at the end of Year 11. There are two Biology, two Chemistry and two Physics papers. Each examination paper is 1 hour 15 minutes, with 70 marks available. Each paper is also equally weighted with a mixture of responses required within the questions.

#### Progression

Whilst students within the upper sets of Years 9 and 10 do study the Separate Science content, this is in preparation for when they are in Year 11. At that time, those students who show they are able to manage the demand, will be given the opportunity to attempt AQA Separate Sciences. This pathway gives students three individual Science GCSE grades in each of the three disciplines; Biology, Chemistry and Physics.

Attaining highly in either the Combined Trilogy or Separate Sciences route allows students to study Science further at A-level where they can choose to study one, two or all three of the Sciences in greater depth. Students will also be able to enrol onto the Applied Science BTEC qualification. Studying Science in Key Stage 5 can lead to many vocational career pathways.