GCSE Combined Science

Examination Board:	AQA	
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Why study Science?

Science is an important discipline and covers a wide range of different subjects.

Science encompasses everything that we are and allows us to make sense of the world around us. The human progression largely relies on advances in science, both past and future. The students' high-quality science education will develop students' curiosity and scientific knowledge to question the world in which we live, enable critical thinking, and encourage students to become socially aware global citizens. As students' progress through their scientific education, they should be able apply their scientific thinking and vocabulary to explain a wide range of phenomena, develop their experimental skills through a variety of scientific investigations and use their observations to justify the conclusions they have made, whilst using their analytical and evaluative skills to critically analyse information they are presented with.

Possible next steps (including careers)

With a Science education, students are able to access a range of different A-levels and college courses, such as Biology, Chemistry, Physics A-Level, Environmental Science, Forensic and Engineering courses. Potential careers could be: Doctor, Nurse, Midwife, Dentistry, Vet, Researcher Scientist, Engineering, Geologist, Meteorologist, Aerospace scientist, Science journalist, Consultancy, Medical sales, Teaching, Sound engineer.

Aptitudes needed

An interest in Scientific knowledge, with curiosity to explore this further. Ability to follow practical instructions in a calm manner. Willingness to produce graphs from data and use equations to solve mathematical problems.

Topic Structure

Within Combined Science, the students will study all 3 disciplines, Biology, Chemistry and Physics. The course allows the students to receive two GCSE grades with these being an average over the 6 papers that the students complete. 44, 65, 98 are examples of how the grades will be reported.

Year 10

- Biology Organisation, Bioenergetics, Ecology
- Chemistry Bonding, Quantitative Chemistry, Electrolysis, The Rate and Extent of Chemical Change
- Physics Electricity, Structure and Properties of Matter, Radioactivity

Year 11

- Biology Homeostasis and Response, Genetics and Evolution,
- Chemistry Organic chemistry, Chemical Analysis and Earth's resources
- Physics Waves, Forces, Magnetism

Assessment	Ctenature
Assessment	Structure

All papers are 1 hour and 15 minutes. They all consist of 70 marks (16.7% of the Combined Science GCSE each). The exam is made up of multiple-choice questions, short and long answer questions, with a highest value of 6 marks. Students can be entered into Higher or Foundation tier, but this is consistent across the six papers.

papers.	
Biology Paper 1	Chemistry Paper 1
Content included: Cell biology, Organisation,	Content included: Atomic structure and the periodic
Infection and Response and Bioenergetics.	table, Bonding - structure and the properties of matter,
	Quantitative chemistry, Chemical changes and Energy
	changes.
Physics Paper 1	Biology Paper 2
Content included: Energy, Electricity, Particle model	Content included: Homeostasis and response,
of matter and Atomic structure.	Inheritance, Variation and evolution, Ecology
Chemistry Paper 2	Physics Paper 2
Content included: The rate and extent of chemical	Content included: Forces, waves, magnetism and
change, Organic chemistry, Chemical analysis,	electromagnetism.
Chemistry of the atmosphere and using resources.	