



KEY STAGE 4

GCSE Combined Science (9-1):

GCSE Combined Science should enable students to:

- develop scientific knowledge and conceptual understanding through the specific disciplines of Biology, Chemistry and Physics
- develop understanding of the nature, processes and methods of science, through different types of scientific enquiries that help them to answer scientific questions about the world around them
- develop and learn to apply observational, practical, modelling, enquiry and problem-solving skills in the laboratory, in the field and in other learning environments
- develop their ability to evaluate claims based on science through critical analysis of the methodology, evidence and conclusions, both qualitatively and quantitatively.

In addition, the course will allow students to study the sciences in ways that help them to develop curiosity about the natural world, that give them an insight into how science works and that enable them to appreciate its relevance to their everyday lives. The scope and nature of the study should be broad, coherent, practical and satisfying. Working scientifically will be assessed through examination and the completion of the eight core practical investigations.

Entry Level Science

This course looks at science through relatable contexts such as cooking and cleaning, health, communication technology and babies. Each unit includes a variety of practical tasks, the opportunity to create their own investigation and a short end of topic test.

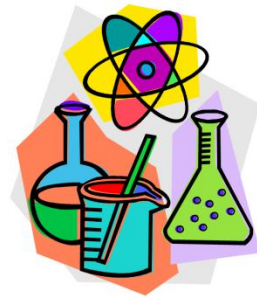
This course is internally moderated with final marks being sent to AQA in May of year 11.

Students are able to gain Entry Level 1 (40%), Entry Level 2 (60%) and Entry Level 3 (80%).

AQA Unit Award Scheme

In science students are studying Chemistry, Physics and Biology through the AQA Unit Award Scheme. This enables students to complete coursework and engage in practical tasks at a level differentiated to meet their individual needs. It is a flexible program that

offers learners the opportunity to have their achievements formally recognised with a certificate each time a short unit is successfully completed.



Science			
Key Stage 4	Autumn	Spring	Summer
US7 AQA Unit Awards	Living things in their environment	Introduction to the systems in the human body	Separating materials
US8 GCSE Combined Science	Year 1 <u>GCSE Biology</u> B1 key biological concepts B2 Cells and control <u>GCSE Chemistry</u> C1 States of matter C2 Methods of separating and purifying substances C3 Atomic structure C4 The periodic table C5 Ionic bonding C6 Covalent bonding	Year 1 <u>GCSE Biology</u> B3 Genetics B4 Natural selection and genetic modification <u>GCSE Chemistry</u> Types of substance C9 Calculations involving masses GCSE Physics P1 Motion P2 Forces and motion P3 Conservation of energy P4 Waves	Year 1 <u>GCSE Biology</u> B5 Health, disease and the development of medicines <u>GCSE Chemistry</u> C8 Acids C10 Electrolytic process <u>GCSE Physics</u> P5 Light and the electromagnetic spectrum P6 Radioactivity
	Year 2 <u>GCSE Biology</u> B5 Health, disease and the development of medicines B6 Plant structures and their functions B7 Animal coordination, control and homeostasis B8 Exchange and transport in animals <u>GCSE Chemistry</u> C11 Obtaining and using metals C12 Reversible reactions and equilibria C13 Groups in the periodic table C14 Rates of reaction chemical reactions C15 Heat energy changes in chemical reactions C16 Fuels	Year 2 <u>GCSE Biology</u> B9 Ecosystems and material cycles <u>GCSE Chemistry</u> C17 Earth and atmospheric science <u>GCSE Physics</u> P9 Electricity and circuits P10 Magnetism and the motor effect P11 Electromagnetic induction P12 Particle model P13 Forces and matter	Year 2 REVISION End of topic tests Revise past papers questions
US9 Entry Level	<u>Biology</u> <ul style="list-style-type: none"> Inheritance, evolution and environment 	<u>Chemistry</u> <ul style="list-style-type: none"> Oils, Earth and atmosphere 	<u>Physics</u> <ul style="list-style-type: none"> Electricity & waves

