

KS4 COURSE OPTIONS – Year 10 2016-2017

Course Title	GCSE Combined Science GCSE Biology, GCSE Chemistry, GCSE Physics			
Exam Board	AQA			
Course Description	<p>GCSE Science offers students a broad, coherent course of study that adds to their knowledge and understanding of the living, material and physical worlds The three core Sciences of Biology, Chemistry and Physics are taught separately throughout Year 10 as the specification allows subject specialists to teach the appropriate units focusing on their area of expertise.</p> <p>GCSE Combined Science is suitable for students of all abilities and helps students to understand theoretical concepts alongside developing practical science skills. Science Coursework (or ISAs as they were known) has ceased and has been replaced by a 'working scientifically' strand that runs throughout the course. Working scientifically is the sum of all the activities that scientists do and is designed to get students investigating, observing, experimenting or testing out ideas and thinking about them. Students will have to complete a series of required practicals during the three year course but they will not be graded. A similar practical however, may form the basis of an exam question in the external paper so it is essential that they complete these specific sessions.</p>			
Course Content (Term 1,2,3 etc.)	Term 1 and 2	Biology Photosynthesis Respiration	Chemistry The Earth and its atmosphere Extracting resources from the Earth	Physics Electricity
	Term 3 and 4	Homeostasis Inheritance Genetics	Using chemical calculations to calculate amount of substances and yield Neutralisation Salts	Discovery of the structure of the atom Radioactivity
	Term 5 and 6	Evolution Classification Abiotic and biotic factors Adaptations	Electrolysis Endothermic and exothermic reactions Reversible reactions Equilibria	Electromagnetic spectrum Magnetism Momentum
Extra-Curricular Opportunities	Sixth form mentoring which normally runs during a tutor session prior to lessons. All students are welcome to attend.			
Useful Websites	<p>http://www.bbc.co.uk/schools/gcsebitesize/science/aqa/ http://www.my-gcscscience.com/ http://www.docbrown.info/page20/AQAScience2S.htm</p> <p>Combined Science: http://www.aqa.org.uk/subjects/science/gcse/combined-science-trilogy-8464</p> <p>Separate Sciences: http://www.aqa.org.uk/subjects/science/gcse/biology-8461 http://www.aqa.org.uk/subjects/science/gcse/chemistry-8462 http://www.aqa.org.uk/subjects/science/gcse/physics-8463</p>			

Important Information	All students will be taught the combined part of the course by a subject specialist. Students will be selected for the three separate sciences by the department during Year 10. This decision will be made on progress since the start of Year 9 and attitude to learning.
Provision For Most Able	Most able students will be offered the chance to complete three separate GCSEs.
Assessment	There are no external exams for GCSE Science in Year 10. Students will be assessed in the classroom each term in each subject and students will also sit Science PPE exam papers during the whole school PPE week.