

Key Stage 4 Subject Overview: GCSE Single Science

Course Information: This course offers you the chance to gain a good understanding of aspects of Biology, Chemistry and Physics.

Course Structure:

Unit title	Unit 1	Unit 2	Unit 3	Unit 4
Description	BIOLOGY 1	PHYSICS 1	CHEMISTRY 1	INVESTIGATIVE SKILLS ASSESSMENT
Course weighting	25% (written paper 1 hour)	25% (written paper 1 hour)	25% (written paper 1 hour)	25% (two written assessments plus one or two lessons of practical work and data)

Key Stage 4 Timeline

Year 10			Year 11		
Autumn	Spring	Summer	Autumn	Spring	Summer
BIOLOGY 1 Keeping healthy, diet and exercise, coordination and control, medicine and drugs .	BIOLOGY 1 Adaptation for survival, energy and Biomass, variation, reproduction and new technology.	Evolution CONTROLLED ASSESSMENT	CHEMISTRY 1 Fundamentals, Rocks and buildings Metals, Crude oil, products from oil, plant oils and changing planet.	PHYSICS 1 Energy, electrical energy, generating electricity, waves and electromagnetic waves.	EXAMS

Assessment Criteria

A*	A	C
<p>Apply content knowledge to a range of events.</p> <p>Analyse graphs to make conclusion .</p> <p>Evaluate arguments and justify own opinion based on scientific points made.</p> <p>Rearrange equations to perform calculations and use answers from calculations to make recommendations .</p> <p>Make recommendations based on scientific evidence .</p>	<p>Applying knowledge from each topic to everyday problems .</p> <p>Plan experiments to investigate scientific ideas</p> <p>Compare results and arguments.</p> <p>Interpret models and show how scientific ideas have changed over time.</p> <p>Rearrange equations to perform calculations.</p>	<p>In each topic be able to:</p> <p>Explain all the concepts above.</p> <p>Carry out investigations to investigate hypothesis.</p> <p>Interpret graphs and tables.</p> <p>Carry out calculations using data sheet .</p> <p>Make and interpret scientific models.</p>