



Science

Students are grouped according to ability into three sets. For the first two years of KS3, all sets follow the 'Smart Science two year programme of study which is compliant with the new **KS3 Science National Curriculum**.

Students who are able to complete the programme within the two year plan are then able to move onto the **KS4 AQA Entry Level Science qualification** in Year 9, with the aim of them progressing onto the **single combined Science GCSE** in Year 11.

Sets which need more time to consolidate a greater understanding of the KS3 programme, continue with the topics until the end of year 9 and will start an **AQA Entry Level Science** in year 10, these students will have the full two years to complete this programme at KS4.

Students on the Smart Science course have regular end of topic tests and are given a clear understanding of how to progress through to a higher level of science application. Topics covered include: *The Skeleton, The Nature of Particles, States of Matter, Motion and Forces, Space Physics, Genetics and Inheritance and Energy Transfer.*

Science			
Key Stage 3	Autumn	Spring	Summer
US1	<ul style="list-style-type: none"> • Parts of the body & senses • Plants • Materials • Acids and alkalis 	<ul style="list-style-type: none"> • Electricity • Forces and motion • Variation & food chains 	<ul style="list-style-type: none"> • Cells • Experiments • End of year assessment
US2	<ul style="list-style-type: none"> • Living systems • The particulate nature of matter • Forces and motion 	<ul style="list-style-type: none"> • Diet and health • Atoms, elements and compounds • Levers, moments and pressure 	<ul style="list-style-type: none"> • Genetics and evolution • Reactions • Electricity and electro-magnetism
US3 (Modified curriculum)	<ul style="list-style-type: none"> • Body & senses, heart & circulation, lungs 	<ul style="list-style-type: none"> • Changing materials, separating materials 	<ul style="list-style-type: none"> • Light & sound • Rock and weathering
US4	<ul style="list-style-type: none"> • Photosynthesis, respiration and circulation • Acids and alkalis • Energy 	<ul style="list-style-type: none"> • Reproduction and growth • Materials and everyday chemistry • Waves 	<ul style="list-style-type: none"> • Ecosystems • The Earth and atmosphere • Space
US5 (Modified curriculum)	<ul style="list-style-type: none"> • Variation and classification 	<ul style="list-style-type: none"> • Energy • Reproduction and 	<ul style="list-style-type: none"> • The Earth and atmosphere • Space

	<ul style="list-style-type: none"> • Acids and alkalis • Assessed practical investigation 	<p>growth</p> <ul style="list-style-type: none"> • Assessed practical investigation 	<ul style="list-style-type: none"> • Ecosystems project
US6	<ul style="list-style-type: none"> • Earth and atmosphere • Ecosystems • Assessed practical investigations 	<ul style="list-style-type: none"> • Waves and space <p><u>GCSE Year 10 Chemistry</u></p> <ul style="list-style-type: none"> • C1 States of matter • C2 Methods of separating and purifying substances • C3 Atomic structure • C4 The periodic table • Practical investigations 	<p><u>GCSE Year 10 Chemistry</u></p> <ul style="list-style-type: none"> • C5 Ionic bonding • C6 Covalent bonding • C7 Types of substance • C9 Calculations involving masses <p><u>GCSE Year 10 biology</u></p> <ul style="list-style-type: none"> • B1 Key biological concepts • B2 Cells and control • B3 Genetics • C9 Calculations involving masses • Practical investigations