



Curriculum Implementation



Key Stage 2	Year 7	Year 8	Year 9	Year 10	Year 11
<p>Pupils should; develop scientific knowledge and conceptual understanding, develop understanding of the nature, processes and methods of science through different types of science enquiries, be equipped with the scientific knowledge required to understand the uses and implications of science, today and for the future.</p> <p>Pupils should be able to describe processes and key characteristics in common language, but they should also use technical terminology. They should also apply their mathematical knowledge to their understanding of science.</p> <p>'Working scientifically' specifies the understanding of the nature, processes and methods of science for each year group. These types of scientific enquiry should include: observing over time; pattern seeking; identifying, classifying and grouping; comparative and fair testing (controlled investigations); and researching using secondary sources.</p>	<p><u>Term 1</u></p> <ul style="list-style-type: none"> Cells Particles Forces Reproduction 	<p><u>Term 1</u></p> <ul style="list-style-type: none"> Tissues and organs Acids and alkalis Movement and pressure Respiration and photosynthesis 	<p><u>Term 1</u></p> <ul style="list-style-type: none"> Growth and differentiation The periodic table Acceleration Human interaction 	<p><u>Term 1</u></p> <ul style="list-style-type: none"> The digestive system Structure and bonding Matter Circulation and respiration 	<p><u>Term 1</u></p> <ul style="list-style-type: none"> Feedback and control Carbon chemistry Electromagnetic radiation Controlling reproduction Controlling reactions
	<p>Cultural Exposure: STEM Challenges</p>	<p>Cultural Exposure: STEM Challenges</p>	<p>Cultural Exposure: STEM Challenges</p>	<p>Cultural Exposure: STEM Challenges</p>	<p>Cultural Exposure: STEM Challenges</p>
	<p><u>Term 2</u></p> <ul style="list-style-type: none"> Atoms, elements and compounds Space Interdependence 	<p><u>Term 2</u></p> <ul style="list-style-type: none"> Changing substances Magnetism Life diversity Earth Systems 	<p><u>Term 2</u></p> <ul style="list-style-type: none"> Introduction to quantitative chemistry Heating Genetics 	<p><u>Term 2</u></p> <ul style="list-style-type: none"> Extraction of metals Energy conservation Plants and material cycling Quantitative Chemistry Movement 	<p><u>Term 2</u></p> <p>Force fields</p> <p>Controlling nature</p> <p>Our atmosphere</p>
	<p>Cultural Exposure: Science Week 2024: Time!</p>	<p>Cultural Exposure: Science Week 2024: Time!</p>	<p>Cultural Exposure: Science Week 2024: Time!</p>	<p>Cultural Exposure: Science Week 2024: Time!</p>	<p>Cultural Exposure: Science Week 2020: Time!</p>
	<p><u>Term 3</u></p> <ul style="list-style-type: none"> Mixtures Energy Transfers Electric Circuits 	<p><u>Term 3</u></p> <ul style="list-style-type: none"> Electric Circuits Nutrition Light 	<p><u>Term 3</u></p> <ul style="list-style-type: none"> Using resources Sound and waves Home electricity 	<p><u>Term 3</u></p> <ul style="list-style-type: none"> Health and disease Energy Changes Electric circuits and energy Radioactivity Ecology 	<p><u>Term 3</u></p>
	<p>Cultural Exposure: A series of careers based STEM challenges.</p>	<p>Cultural Exposure: A series of careers based STEM challenges.</p>	<p>Cultural Exposure: A series of careers based STEM challenges.</p>	<p>Cultural Exposure: A series of careers based STEM challenges.</p>	<p>Cultural Exposure:</p>
	<p><u>Assessment</u></p> <p>Formative: Students are given a wide range of tasks in lessons that enable students and their teachers to check their understanding.</p> <p>Summative: End of topic tests, termly interleaving tests.</p>	<p><u>Assessment</u></p> <p>Formative: Students are given a wide range of tasks in lessons that enable students and their teachers to check their understanding.</p> <p>Summative: End of topic tests, termly interleaving tests.</p>	<p><u>Assessment</u></p> <p>Formative: Students are given a wide range of tasks in lessons that enable students and their teachers to check their understanding.</p> <p>Summative: End of topic tests, termly interleaving tests.</p>	<p><u>Assessment</u></p> <p>Formative: Students are given a wide range of tasks in lessons that enable students and their teachers to check their understanding.</p> <p>Summative: End of topic tests, termly interleaving tests. Mocks Exams</p>	<p><u>Assessment</u></p> <p>Formative: Students are given a wide range of tasks in lessons that enable students and their teachers to check their understanding.</p> <p>Summative: End of topic tests, full Paper 1 at Xmas and Paper 1&2 Easter.</p>