

Science Learning Programme

Curriculum Intent:

The purpose of the Science curriculum is to develop students' scientific knowledge, understanding and curiosity. Students become scientifically informed citizens so that they are able to rationally question and make informed decisions about the world around them.

Students develop scientific knowledge and conceptual understanding through the disciplines of Biology, Chemistry and Physics. They are equipped with the ability to think logically and analytically so they can understand the implications of Science in new contexts and the uses of the knowledge they have acquired.

Y7	Y8	Y9	Y10	Y11
<ul style="list-style-type: none"> • Particles • Fundamentals of Physics • Cells 	<ul style="list-style-type: none"> • Digestion and nutrition • Light and sound • Periodic table 	<ul style="list-style-type: none"> • Forces in action • Reactivity 	<ul style="list-style-type: none"> • Organisation • Bonding, structure and properties of matter • Electricity 	<ul style="list-style-type: none"> • Homeostasis and response • The rate and extent of chemical change • Forces
		<ul style="list-style-type: none"> • Energetics • Sound 	<ul style="list-style-type: none"> • Infection and response • Quantitative chemistry • Particle model of matter 	<ul style="list-style-type: none"> • Inheritance, variation and evolution • Organic chemistry
<ul style="list-style-type: none"> • Chemical changes • Organ systems • Sound 	<ul style="list-style-type: none"> • Space • Earth materials • Matter 	<ul style="list-style-type: none"> • Biological systems 	<ul style="list-style-type: none"> • Bioenergetics • Chemical changes 	<ul style="list-style-type: none"> • Chemical analysis • Waves
		<ul style="list-style-type: none"> • Cell biology 	<ul style="list-style-type: none"> • Atomic structure • Energy changes 	<ul style="list-style-type: none"> • Chemistry of the atmosphere • Magnetism and electromagnetism • Using resources
<ul style="list-style-type: none"> • Light • Materials • Life cycles 	<ul style="list-style-type: none"> • Plants and photosynthesis • Forces in action 	<ul style="list-style-type: none"> • Atomic structure and the periodic table 	<ul style="list-style-type: none"> • Homeostasis and response • End of year exams 	<ul style="list-style-type: none"> • Revision
		<ul style="list-style-type: none"> • Energy 	<ul style="list-style-type: none"> • Forces 	

Resources to support your child

<ul style="list-style-type: none"> • BBC bite size KS3 Science. • Oak national academy • Sparx science 	<ul style="list-style-type: none"> • BBC bite size KS3 Science • Oak national academy • Sparx science 	<ul style="list-style-type: none"> • BBC bite size GCSE Science • Oak national academy • Sparx science • Science knowledge organiser and retrievers
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