

KS3 Science Curriculum 2024-25

	Year 7		Year 8		Year 9	
	Knowledge and skills	Enrichment	Knowledge and skills	Enrichment	Knowledge and skills	Enrichment
Cycle 1	<p>Science skills How to be safe in a lab. Key skills.</p> <p>Biology - Cells Plant and animal cells.</p> <p>Chemistry - Particle model States of matter and changes of state.</p> <p>Physics - Forces Types of forces. Balanced and unbalanced forces.</p>		<p>Biology - Health & lifestyle Effects of diet and smoking</p> <p>Chemistry - The periodic table How we organise the elements..</p> <p>Physics - Electricity & magnetism Circuits, electrical components and magnets.</p>		<p>Biology - Inheritance Genes, DNA and natural selection.</p> <p>Chemistry - The Earth The structure of the Earth, rocks and climate.</p> <p>Physics - Motion How and why do things move. Measuring speed.</p>	
Cycle 2	<p>Biology - Body systems The parts of the body and their functions.</p> <p>Chemistry - Atoms, elements and compounds, and chemical reactions What everything is made from and how certain chemicals combine.</p> <p>Physics – Sound and Light Sound and light as waves and their properties.</p>	British Science Week	<p>Biology - Biological processes Respiration and photosynthesis.</p> <p>Chemistry - Separation techniques Filtration, evaporation and chromatography.</p> <p>Physics - Energy Energy stores and transfers. Energy resources.</p>	British Science Week	<p>Biology – Biological processes Aerobic and Anaerobic respiration Factors affecting photosynthesis.</p> <p>Chemistry – Chemical reactions Word and symbol equations. Conservation rules.</p> <p>Physics – turning forces Force multipliers and moments</p>	FameLAB Academy (Science presentation competition) British Science Week
Cycle 3	<p>Biology - Reproduction How animals and plants reproduce. The menstrual cycle.</p> <p>Chemistry - Acids and alkalis The pH scale. Neutralisation and making salts.</p> <p>Physics - Space What’s out there. Why we have day and night and the seasons.</p>		<p>Biology - Ecosystems and adaptation Organisation of ecosystems. Importance of biodiversity.</p> <p>Chemistry - Metals and other materials Properties and uses of metals and other materials.</p> <p>Physics - Pressure Pressure in solids, liquids and gases. Calculating pressure.</p>	Oxford museums trip	<p>GCSE Biology introduction - cells and organisation Organelles in cells, complexity of the body.</p> <p>GCSE Chemistry introduction - atomic structure Protons, neutrons and electrons</p> <p>GCSE Physics introduction - energy Energy stores, transfers and equations</p>	