



Curriculum Plans – Key Stage 3 Science

Please find below a detailed outline of the curriculum covered in Science through Year 7 in Key Stage 3.

Year 7

Block 1	Block 2	Block 3	Block 4	Block 5	Block 6	Block 7
Introduction to Science <ul style="list-style-type: none"> • Lab safety • Bunsen burner • Practical skills • Planning skills • Scientific thinking/questions • Variables • Evaluation and conclusions • Results and graphs Plants (Bio Unit 1) <ul style="list-style-type: none"> • Leaves, stems and roots 	States of matter (Chem Unit 1) <ul style="list-style-type: none"> • The particle theory of matter • Boiling, evaporating and condensing • Melting, freezing, and subliming • Energy and changes of state • Using particle theory to explain dissolving Forces (Phy Unit 1) <ul style="list-style-type: none"> • Introduction to forces • Balanced forces • Friction • Gravity • Air resistance • Tension and upthrust 	Material properties (Chem Unit 2) <ul style="list-style-type: none"> • Introducing elements • Metal elements • Non-metal elements • Metal alloys • Material properties • Polymers Energy (Phy Unit 2) <ul style="list-style-type: none"> • What is energy? • Energy from the Sun • Energy types • Energy transfer • Conservation of energy • Gravitational potential energy and kinetic energy • Elastic potential energy Humans (Bio Unit 2) <ul style="list-style-type: none"> • The human skeleton • Muscles and movement • Organ systems • The circulatory system • Studying the human body • Extending lives 	The Earth and Beyond (Phy Unit 3) <ul style="list-style-type: none"> • The night sky • Day and night • The seasons • Stars • Our Solar System • The Moon • The origin of the Universe Material changes (Chem Unit 3) <ul style="list-style-type: none"> • Acids and alkalis • The pH scale and indicators • Neutralisation • Antacids Cells and organisms (Bio Unit 3) <ul style="list-style-type: none"> • The characteristics of living things • Microbes • Louis Pasteur • Useful micro-organisms • Plant and animal cells • Specialised cells • Nerves • Tissue and organs 	Science Week Living things in their environment (Bio Unit 4) <ul style="list-style-type: none"> • Habitats • Food chains • Feeding ourselves • Changing the planet • Preventing extinction • Obtaining energy • Growing fuels The Earth (Chem Unit 4) <ul style="list-style-type: none"> • The structure of the Earth • Igneous rocks • Sedimentary rocks • Sedimentary rock formation • Metamorphic rocks • Soil • Fossils • Estimating the age of the Earth 	Variation and classification (Bio Unit 5) <ul style="list-style-type: none"> • Variation • Species Revision Review	Project Work
End of Unit Assessment	End of Unit Assessment	End of Unit Assessment	End of Unit Assessment	End of Unit Assessment	End of Key Stage Assessment	End of Unit Assessment
		Data for Autumn Report		Data for Spring Report		Data for Summer Report
Autumn			Spring		Summer	