



Bamburgh Whole School Science Curriculum Map

Vision: Raising Achievement to Inspire Independence

Motto: Aspiration Commitment Manners Enjoyment

School Curriculum Intent: To empower pupils to understand and interact positively with the world around them.

Science Curriculum Intent - :To Inspire and encourage scientific curiosity in every pupil.

The Pathway through Bamburgh's Curriculum

All class groups are assigned to a different stage each year, forming a pathway through the curriculum which may be either **Core**, **Core+**, **Core++**(in secondary department only) or a mixture of these. Individual pupil pathways are tracked. In this way, a pupil's pathway through the curriculum is sequenced and ordered,

Whilst the unit title may be the same for more than one pathway, the knowledge taught will be different.

		Half Term 1	Half Term 2	Half Term 3	Half Term 4	Half Term 5	Half Term 6
Stage 1	Core	Types of Animals		Classifying materials		Plants structures and functions	
	Core +	Parts of Animals		Properties of everyday materials		Basic Structure of plants	
Stage 2	Core	Keeping Healthy		Uses of materials		Habitats	
	Core +	Feeding		Materials changing shape		Growing Plants	



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Stage 3	Core	Light and Shadows		Magnets and forces		Rocks and soils	
	Core +						
Stage 4	Core	Changes of State		Electricity		Living Things	
	Core +						
Stage 5	Core	Earth and Space		Separating mixtures		Life Cycles	
	Core +						
Year 6	Core	Human Body	Materials	Sound	Animals	Forces	Plants
	Core +						
Year 7		Movement & Cells	Particle Theory & separating mixtures	Forces - Speed & Gravity	Interdependence & Variation	Electricity	Plant & Animal Reproduction
	Core	Human Skeleton Muscles Specialised cells	Changes of State / Particle Theory Separating techniques	Speed Forces Mass & Weight	Types of organisms Food webs Population	Series and Parallel Circuits Resistance	Plant Reproductive organs Seed Dispersal Human



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	Core +					Electrical conductors/ insulators	Reproductive organs and Sex cells
	Core ++					Magnetic fields	Stages of Human Life Cycle
Year 8		Energy	Earth	Breathing	Chemical Reactions	Light & Sound	Respiration & Photosynthesis
	Core	Energy	Structure of the Earth	Respiratory System	Acids and Alkalis	Light Sources	Respiration
	Core +	Work	Rock Cycle	Breathing/ Gas Exchange	Neutralisation	Reflection and refraction	Photosynthesis
	Core ++		Our Solar System	Effects of environmental variables on health	Metals and their reactions	Colour	Plant adaptations
						Waves	
Year 9		Waves	Periodic Table	Digestion	Chemical change	Electromagnets	Evolution & Inheritance
	Core	Energy Transfers	Periodic Table	Nutrition	Energy changes in a reaction	Magnets	Biodiversity
	Core +	Waves	Elements and Compounds	Organs in the Digestive System	Conservation of Mass	Magnetic fields	Natural Selection Evolution Inheritance
	Core ++			Digestion		Electromagnets	



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				processes/stages			
Year 10		Atoms, Compounds and States of Matter	Cells Genetics, Inheritance and Modification	Forces, Movement and Energy	Separating Mixtures and Metals	Health and Disease	Waves & Radiation
	Core ELC L1 & 2	Atomic Structure	Cells & Systems	Forces of Motion	Separating Techniques	Lifestyle	Waves
	Core + ELC 3	Periodic Table	Inheritance	Conservation of Energy	Neutralisation	Pathogens	Electromagnetic Spectrum.
	Core ++ GCSE	Structures and properties of metals, non-metals	Selective Breeding & Modification	Energy Resources	Reactions of Metals	Immune System	Radiation
Year 11		Electricity and Magnets	Elements and Chemical reactions	Human Biology	Fuels and Earth's Atmosphere	Energy and Particles	Plants and Ecosystems
	Core FS L1/2	Charge and Power	Groups in the Periodic Table	Homeostasis	Fuel	Work and Power	Photosynthesis
	Core + FS L3	Resistance	Patterns of reactivity	Respiratory System	Earth's Atmosphere	Energy Transfer	Exchange and transportation.
		Magnets and Electromagnets	Rates of Reaction	Circulatory System	Environmental		Ecosystems
		Electricity in the					



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	Core ++ GCSE	home			Effects		Natural Cycles
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