

Science Curriculum Statement

Sizarii	Const.		Curious	Creative	Confident
Inte	nt		recognise the power of curiosity through the intro	nce education provides the foundations for our pupils duction of famous scientists, who will provide a historial their understand ills they need to deepen and extend their understand	orical context for their learning. Our aim is to equip
			KS1	Lower KS2	Upper KS2
Implementation	What	(For further information on the programmes of study please refer to the Science curriculum overview document)	During years 1 and 2, pupils should be taught to use the following practical scientific methods, processes and skills through the teaching of the programme of study content: asking simple questions and recognising that they can be answered in different ways of observing closely, using simple equipment performing simple tests identifying and classifying using their observations and ideas to suggest answers to questions gathering and recording data to help in answering questions. Within the following programmes of study: Animals including humans Plants Living Things Seasonal Changes Materials	During years 3 and 4, pupils should be taught to use the following practical scientific methods, processes and skills through the teaching of the programme of study content: asking relevant questions and using different types of scientific enquiries to answer them setting up simple practical enquiries, comparative and fair tests making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers gathering, recording, classifying and presenting data in a variety of ways to help in answering questions recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions identifying differences, similarities or changes related to simple scientific ideas and processes using straightforward scientific evidence to answer questions or to support their findings.	During years 5 and 6, pupils should be taught to use the following practical scientific methods, processes and skills through the teaching of the programme of study content: planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs using test results to make predictions to set up further comparative and fair tests reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations identifying scientific evidence that has been used to support or refute ideas or arguments. Within the following programmes of study: Animals including humans Properties and changes of materials Electricity Forces

	Ном	Through the modelling and specific teaching of the working scientifically skills Teaching with a cross-curricular approach wherever possible (Maths-data handling, History-introduction and study of famous scientists, Englishwriting of a formal experiments) Pupils have access to and regularly use a range of quality equipment Lessons are taught both indoors and outdoors Specialist visitors to inspire and enhance learning				
		Pupils have access to a range of quality books about Science both fiction and non-fiction Pupils have the opportunity to take part in local and national Science competitions Pupils have the opportunity join a Science club				
	Fingertip Knowledge					
Asse	ssment		I loorbook used in each unit to capture learning over time an Quality questioning Feedback provided on written outcomes of summative judgements in years groups and against PLAN			
		Quality of education	Behaviour and attitudes	Personal development		

Pu Pu Pu eq	upils are able to carry out fair testing. upils can recall some topical facts. upils know when and how to use scientific quipment (where appropriate, to a good egree of accuracy).	Pupils ask 'Why?' 'How?' and 'What if?' Pupils engage in discussion around scientific concepts/ theories.	Pupils are motivated to continue their Science learning at home (researching, testing, exploring).
Pu Pu eq	upils can recall some topical facts. upils know when and how to use scientific quipment (where appropriate, to a good	Pupils engage in discussion around scientific concepts/	learning at home (researching, testing,
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Pu eq	upils know when and how to use scientific quipment (where appropriate, to a good		
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de	egree of accuracy)		
	egree or accuracy).		
Du	upils can identify and model the 'working		
	cientifically' skills.		
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Pu	upils can engage in discussion using		
ар	opropriate Scientific vocabulary.		
Du	unils can record results in an appropriate		
	upils can record results in an appropriate ormat.		
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Pu	upils can explain scientific concepts.		