

Through the study of science, St. Mary's children will develop their experimental thinking and curiosity to investigate the world around them. They will become reflective thinkers who see links and patterns in a meaningful way.

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Reception	 EYFS 2020 – Understanding The World – Children at EXP by end of EYFS will: Explore the natural world around them making observations and drawings of plants and animals – {links to NC Key Skills 1, 2, 4, 5, 6 & 7} ii) Know some similarities and differences between the natural world around them and contrasting environments, drawing on own experience and what has been read in class – {links to NC Key Skills 1, 4} iii) Understand some important processes and changes in the natural world around them including seasons and changing states of matter –{Link to NC Key Skills 1,2, 4,5,7} 					
Year 1	Animals including Humans (humans focus) 2,4,5,6	Animals including humans (animal focus) 2,4,5,6 Link to history - senses	Everyday Materials 2,3,4,5,6 Link to geography – local area/homes	Everyday Materials 2,3,4,5,6	Plants 2,3,4	Seasonal changes – weather 2,4,5,6
				– throughout the year		
Year 2	Living things and their habitats 2,4,5,6 Link to DT – make a home	Living things and their habitats 2,4,5,6	Animals including humans 2,4,5,6 Link to DT – making guacamole	Plants 2,3,4,6	Every day materials and their properties 2,3,4,5,6 Link to history and DT – Great Fire of London	Every day materials and their properties 2,3,4,5,6
Year 3	Rocks and soils 4,5,6 Link to prehistoric Britain	Forces and magnets 2,4,5,6	Animals including humans 2,4,5,6 Link to DT – food project linked to Europe in history	Animals including humans 2,4,5,6	Light 2,3,5,6 Link to DT – eg shadow puppets	Plants 2,3,4,6 Link to geography and art - Rainforests
Year 4	States of Matter 2,3,4,5,6	States of matter 2,3,4,5,6 Link to geography – Water Cycle	Sound 2,3,5,6 Link to Viking instruments?	Electricity 2,3,5,6 <i>Link to DT - Torches</i>	Animals including humans 2,4,5,6 Link to history – Tudor meal?	Living things and their habitats 2,4,5,6 Link to geography – Scandinavia
Year 5	Properties and changes of materials 2,3,4,5,6 Link to history – Victorian Britain	Properties and changes of materials 2,3,4,5,6 Link to history – Victorian Britain	Earth and Space 2,4,5,6	Earth and Space 2,4,5,6	Forces 2,3,5,6 Link to DT in Summer 2	Living things and their habitats/Animals including humans 2,3,4,5,6
Year 6	Living things and their habitats 2,3,4,5,6 Link to DT	Evolution and inheritance 3,4,5,6	Light 2,3,5,6 Link to art – digital art	Electricity 2,3,5,6 <i>DT link</i>	Animals including humans 2,3,4,5,6	Animals including humans 2,3,4,5,6

National Curriculum Key Skills						
Skill Key	KS1	Lower KS2 + (KS1)	Upper KS2 + (KS1 and Lowers KS2)			
1 – Ask questions – in	Ask simple questions and recognise these questions	Ask relevant questions and different types of scientific enquiry to	Planning different types of scientific enquiries to answer questions			
all programmes of	can be answered in different ways.	answer them. Use scientific evidence to answer questions or support findings.	including recognising controlling variables where necessary. Identify scientific evidence that has been used to support or refute			
study		ose sectore evidence to answer questions of support maings.	ideas.			
2 – Observations	Observing closely, using simple equipment.	Make systematic and careful observations where appropriate, taking accurate measurements using standard units and a range of equipment including thermometers and data loggers.	Take measurements using a range of scientific equipment with increasing accuracy and precision, take repeated readings here necessary.			
3 - Test	Preform simple tests	Setting up simple practical enquiries, comparative and fair tests				
4 – Identifying and	Identifying and classifying	Identifying differences, similarities or changes related to simple	→			
Classifying		scientific ideas and processes.				
5 – Using	Using observations and ideas to suggest answers to	Using results to draw simple conclusions, make predictions for new	Using test results to make predictions to set up further comparative			
Observations	questions	values, suggest improvements and raise further questions	and fair tests.			
6 - Recording	Gathering and recording data to help in answering questions.	Recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts and tables.	Recording data results of increasing complexity using scientific diagrams and labels, classification keys, tables, bar and line graphs.			
		Gathering, recording, classifying and presenting data in a variety of ways to help in answering questions.				
		Reporting on findings from enquiries including oral and written explanations, displays or presentations of results and conclusions.	Reporting and representing findings from enquiries, including conclusions, casual relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations.			
7 – Vocabulary – <mark>in all</mark>	Pupils should read and spell scientific vocabulary at a	Pupils should read and spell scientific vocabulary correctly and with	Pupils should read, spell and pronounce scientific vocabulary			
programmes of study	level consistent with their increasing word and spelling knowledge at KS1.	confidence, using their growing reading and spelling knowledge.	correctly.			