



## Science Curriculum Statement – September 2022

### Our School Vision:




*Our aim is for all to belong to a safe and happy community which celebrates our diversity and differences. Our children will be well prepared for the next step of their journey as responsible citizens. We aspire for all to flourish.*

### Intent

At St Mary St Giles School, we aim to prepare our children for their future with a “hands –on”, inquiry-based science curriculum that enables them to confidently explore and discover the world around them. We will motivate and actively engage our children, to nurture and grow their curiosity. Core scientific knowledge and skills is taught through direct teaching, experimentation, and exploration. Our intent is for all our children to be life- long learners who are: inquisitive, independent thinkers, confident to ask questions and who are well prepared for their future in the ever-changing world.

### Implementation

Our whole curriculum is shaped by our school vision which aims to enable all children, regardless of background, ability, additional needs, to become responsible citizens and flourish. It is underpinned by our curriculum drivers:

	<p style="text-align: center;">Opportunity</p>	<p>We strive to provide a range of opportunities to excite, motivate and enthuse our children. We capture the interest of children by relating science to everyday lives and provide our pupils with opportunities to think as scientist, develop curiosity and a deep knowledge. This includes using the local area, curriculum days and STEM projects. We want our children to broaden their aspirations and make real life links to their learning.</p>
	<p style="text-align: center;">Enquiry</p>	<p>We foster the natural curiosity of our children and support them to develop inquisitive thinking about their learning. Our curriculum includes high quality investigations which focus on scientific skills and develops and deepens understanding. At SMSG we build and develop on the big ideas of Science to gain an understanding of global issues to enhance cultural capital.</p>
	<p style="text-align: center;">Language</p>	<p>Language rich environments and lessons develop a rich vocabulary which we want our children to use confidently and accurately. We want to develop expressive and articulate young people who have a broad scientific vocabulary. Scientific language is referred to and displayed. Children are supported with key vocabulary through displays, knowledge organisers, modelling, and word banks.</p>

We teach the National Curriculum, supported by a clear skills and knowledge progression. This ensures that skills and knowledge are built on year by year and sequenced appropriately to maximise learning for all children. We use a range of resources to plan from including Cornerstones.

### Science curriculum 2022 -2023

**Long Term Science Curriculum Overview**

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
EPFS Cycle A (2022-23)	Let's Explore	Marvelous Machinery	Long Ago	Beady Beady Grow	Animal Safari	On The Beach
EPFS Cycle B (2023-24)	Me and My Community	Once Upon A Time	Story Night	Dangerous Dinosaurs	Sunshine and Showers	Big Wide World

	Block A 4 weeks	Block B 4 weeks	Block C 3 weeks	Block D 3 weeks	Block E 3 weeks	Block F 3 weeks	Block G 3 weeks	Block H 3 weeks	Block I 3 weeks	Block J 3 weeks	Block K 3 weeks
Year 1/2 Cycle A (2022-23)	Seasonal changes	Seasonal changes	Seasonal changes		Plant parts + plant survival	Plant parts + plant survival	Plant parts + plant survival		Human survival + Human senses	Human survival + Human senses	Human survival + Human senses
Year 1/2 Cycle B (2023-24)	Uses of materials + Everyday materials	Uses of materials + Everyday materials	Uses of materials + Everyday materials		Animal parts + Animal survival	Animal parts + Animal survival	Animal parts + Animal survival		Habitats	Habitats	
Year 3	Forces and magnets	Forces and magnets		Skeleton and muscular system	Skeleton and muscular system	Plant nutrition and reproduction	Plant nutrition and reproduction	Reproduction	Light and shadows	Light and shadows	
Year 4	States of matter	States of matter	Grouping and classifying	Grouping and classifying	Digestive system	Digestive system	Sound	Sound	Electrical circuits and conductors	Electrical circuits and conductors	
Year 5	Properties and changes of materials	Properties and changes of materials	Forces and mechanisms	Forces and mechanisms	Human reproduction and aging	Human reproduction and aging			Earth and space	Earth and space	
Year 6	Evolution and inheritance	Evolution and inheritance		Electrical circuits and components	Electrical circuits and components	Circulatory system	Circulatory system		Light theory	Light theory	

Specific Science units are taught in each year group, building on from previously taught units and skill coverage. Teachers are free to change the order areas are taught to make cross curricular links as long as all areas are covered over the year.

### **Impact**

By the time the children at St Mary and St Giles leave our school we intend that they will be able to think independently, to ask and answer questions about the world around them. To be life-long learners who are enthused, curious and inquisitive, confident to ask 'Big Questions' and who are well prepared for their future in the ever-changing world