



Science Curriculum Yearly Overview

Intent

At St Mary's Priory Primary School we aim to teach a clear and coherent, rich diverse curriculum. The Science curriculum should build on the children's natural curiosity, foster links with their environment and support their future learning in higher education and future employment.

We believe all pupils should be taught essential aspects of the knowledge, methods, processes and uses of science. From EYFS up to KS2 our pupils will build up a body of key foundational knowledge and concepts, pupils are encouraged to recognise the power of rational explanation and develop a sense of excitement and curiosity about natural phenomena. Teachers plan and challenge pupils using the National Curriculum objectives, Discovery Experts and supporting Science documents including PLAN documents, Scientific Enquiry planning and ASE Science plan examples for each topic. This planning is based on acquiring knowledge, developing science enquiry skills alongside working scientifically skills, having knowledge of the progression throughout the years and the rich vocabulary used to develop concepts and knowledge. We monitor our schools progress in Science by looking for evidence during the lessons through targeted questioning, assessing the learning objectives, and monitoring statements from the National Curriculum. We are able to use this evidence to track progress and target the highest number of children on attaining the expected level or higher.



	Aut 1	Aut 2	Spr 1	Spr 2	Sum 1	Sum 2
EYFS Nursery	<u>Development Matters Statements (to be updated)</u> Use all their senses in hands-on exploration of natural materials. • Explore collections of materials with similar and/or different properties. • Begin to understand the need to respect and care for the natural environment and all living things. Use all their senses in hands-on exploration of natural materials. • Explore collections of materials with similar and/or different properties. • Plant seeds and care for growing plants. • Understand the key features of the life cycle of a plant and an animal. • Begin to understand the need to respect and care for the natural environment and all living things. Use all their senses in hands-on exploration of natural materials. • Explore collections of materials with similar and/or different properties. • Talk about the differences between materials and changes they notice. Explore how things work. • Talk about the differences in materials and changes they notice.					
	(Beginnings) Seasonal changes Earth and Space Humans	(Food) Seasonal changes Materials, including changes of materials. Humans and plants- in connection with food and staying healthy.	(Water) Materials, including changes of materials Forces Animals excluding humans	(Growing) Living things and life cycles (Plant)	(Animals) Animals and their habitats including life cycles	(Homes and Buildings) Materials and changes of materials Force



		Light and sound				
	Seasonal Changes (taught and revisited throughout the year.)	Animals including humans (Parts of the body statements)	Everyday Materials	Animals including humans (animal statements)	Everyday materials	Plants (look at common plants and trees throughout the seasons)
	Living Things and their Habitats	Use of Everyday Materials (properties and uses of materials statements)	Animals including humans(basic needs and keeping healthy)	Use of Everyday Materials (changes of materials statements)	Animals including Humans (offspring statement) Plants (begin the topic)	Plants



	Animals Including Humans (nutrition)	Animals Including Humans (skeletons)	Rocks	Plants (Seed dispersal and pollination)	Light (Shadows and reflective materials)	Forces and Magnets
	Animals Including Humans (digestive system)	Living Things and their Habitats (classifying)	States of Matter (group solids, liquids and gases)	Sound (How are they made?)	Electricity (simple circuits)	Electricity
	Properties of Materials	Changes of Materials	Forces (gravity and resistance)	Earth and Space	Living Things and their Habitats (life cycles and reproduction)	Animals Including Humans (human growth)



	Living Things and their Habitats (classifying animals and humans)	Animals Including Humans (circulatory system)	Electricity (using symbols)	Light (how it travels)	Light and Great Science Share	Evolution and Inheritance (changes over time)
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Useful inks:

BBC Bitesize

Primary Science.co.uk

Terrific Scientists

Explorify

Royal Institute of Science lectures