

Science Curriculum





At St. Mary's, we understand that science is an integral part of our everyday lives. As such, we aim to inspire children to ask questions about the world they inhabit and then provide them with the skills and knowledge they need to answer those questions. We take an investigative approach towards science, encouraging the children to learn new scientific skills, such as close observation, careful recording and designing investigations.

Science is one of the core subjects in the National Curriculum and is taught each week in all KS1 and KS2 classes, using the White Rose Science Curriculum. Through the rich Early Years curriculum in place, children in our Pre-school, Nursery and Reception classes, begin their scientific journey through the Knowledge and Understanding of the World aspect of their curriculum.

Intent

The National Curriculum for Science aims to ensure that all children:

- develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics
- develop understanding of the nature, processes and methods of science through different types of science enquiries that help them to answer scientific questions about the world around them
- are equipped with the scientific skills required to understand the uses and implications of science, today and for the future. We understand that it is important for lessons to have a skills-based focus, and that the knowledge can be taught through this.

Implementation

Our whole school approach to the teaching and learning of Science:

- There is a clear and comprehensive Science curriculum that is in keeping with the National Curriculum and where there is a progression of learning through the school (both knowledge and scientific skills).
- Children explicitly know what they are learning, why they are learning it and how they are learning it in every lesson.
- A holistic approach is taken to the teaching and learning of Science where children are given opportunities to reflect on previous learning and building upon this knowledge so that they can make links between different topic areas.
- Cross-curricular links are made regularly, allowing them to make further links between learning.
- A wide range of resources are used to aid the teaching and learning of Science so that children can embed scientific understanding and allowing them to work scientifically.
- Children are offered a wide range of extra-curricular activities, visits, trips and visitors to complement and broaden the curriculum.
- Assessment is monitored regularly to inform future planning so that all children are able to make good progress and achieve high standards.

Impact

- All groups of children will make good progress in Science and the majority of children will achieve age-related expectations.
- Children will retain the knowledge that is taught in Science and build on these through their learning journey while also applying these to real life contexts.
- Children will be able to conduct investigations and find answers to scientific questions that are posed through hands-on and practical teaching and learning.
- Children will be able to explain processes with scientific reasoning, using the appropriate key vocabulary that they are taught.



	Long Term Curriculum Plan 2025-2026					
Science	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
EYFS	ELG: Children at the expected level of development will: ➤ Explore the natural world around them, making observations and drawing pictures of animals and plants; ➤ Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class; ➤ Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter.					
Year 1	The Human Body Seasonal Changes	Materials Seasonal Changes	Planting Animals and their characteristics	Animals and their characteristics Continued Sustainability Planting	Plants	Sustainability Growing and Cooking Seasonal Changes
Year 2	Animals' needs for Survival Humans	Materials and Sustainability	Plans (light and dark)	Living things and their habitats	Plants (Bulbs and Seeds)	Growing up Wildlife
Year 3	Skeletons and Movement Nutrition and Diet	Nutrition and Diet Rocks	Fossils and Soil	Light	Plants	Forces and Magnets Biodiversity
Year 4	Grouping and Classifying Living Things	States of Matter	Sound	Electricity	Living things and their habitat	The Digestive System Food Chains
Year 5 & 6	Living things and their habitats	Electricity	Light	The Circulatory System	Variation and Adaptation	Fossils