



'Treat other people as you would like to be treated'

We believe that children should be inquisitive, imaginative and resilient learners who are aspirational and flourish in the world that God has given us. Our Curriculum enables children to learn and to be able to articulate their learning, preparing them for their experience of learning at secondary school and creating a desire for lifelong learning.

Intent

At St. Peter's Primary School, we encourage the children to be curious and inquisitive in both their time at school and beyond, to develop their knowledge and understanding of the world we live in. We aim to not only inspire this curiosity, but also nurture a respect for living things and the natural environment around us. Throughout the programmes of study, the children will develop their scientific knowledge, in line with the National Curriculum, alongside having opportunities to apply these skills and work scientifically through investigation. The Working Scientifically skills are built-on and developed each year, so that the children can apply their knowledge of science when using equipment, conducting experiments, building arguments and explaining concepts confidently and continue to ask questions about their surroundings.

At St Peter's Catholic Primary School, in conjunction with the aims of the National Curriculum, our teaching aims to enable children to:

- Develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics.
- Develop an 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.
- Be equipped with the scientific knowledge required to understand the uses and implications of science, today and for the future.
- Develop a positive attitude towards scientific learning and discovery.
- Develop a growth mind-set, using trial and error to persevere when investigating.
- Use equipment both safely and respectfully to aid their scientific enquiry.
- Learn to use scientific vocabulary consistently to describe their findings.
- Develop into independent learners and learn to work cooperatively with others.
- Use a range of methods to communicate their scientific information and present it in a systematic, scientific manner, including I.C.T., diagrams, graphs and charts.

The National Curriculum provides a structure and skill development for the science curriculum being taught throughout the school, which is then linked, where possible, to their year group topics, reflecting a balanced, cross-curricular linked programme of study.

At St Peter's Catholic Primary School, children learn about Science in 2-hour weekly sessions (or equivalent per half term). Planning is done in key stage pairs and curriculum topics are rotated on a 2 yearly cycle to ensure coverage across that key stage group. We endeavour to ensure that the Science curriculum which we provide will give children the confidence and motivation to continue to further develop their skills into the next stage of their education and life experiences.

Real Life Experiences

Underpinned by

Our successful approach at St Peter's Catholic Primary School results in a fun, engaging, high-quality science education, that provides children with the foundations for understanding the world around them. Our engagement with the local environment ensures that children learn through varied and first-hand experiences. So much of science lends itself to outdoor learning and so we provide children with opportunities to experience this where possible. Through various workshops, themed days, trips and interactions with experts, children have the understanding that science has changed our lives and that it is vital to the world's future prosperity. Children learn the possibilities for careers in science and learn how to break down the barriers of scientific stereotypes.

Implementation

Addressing misconceptions in previous knowledge

Children have the opportunity to revisit previous learning from past year groups to address any misconceptions before absorbing new information.

Scientific Figures

Children are taught about significant scientific figures through history and in our world today.

Working Scientifically

Lessons include practical elements, where possible, to ensure that children are engaged and enthused during their Science learning and to reinforce the 'Working Scientifically' skills.

	Thoughtful Questioning	Creative Recording	Engaging Activities
	Thoughtful Questioning encourages deeper thinking and the consideration of different possible outcomes.	Creative recording allowing children to share and explain their findings to enable a thorough understanding of scientific evidence.	Themed days are held to celebrate and raise the profile of important scientific themes. We celebrate British Science Week annually by completing fun and exciting experiments. Children also have the opportunity to take part in school trips and visits to consolidate their knowledge beyond the classroom.

Impact	At the end of each year, pupils will have gained a deepening understanding of the scientific strands. They will be able to apply this to:			
	Pupil Voice	Evidence in Knowledge	Evidence in Skills	Breadth and Depth
	Children can talk enthusiastically about their Science lessons and show a genuine curiosity and interest in the areas they have explored.	Children can verbally explain their learning clearly using key vocabulary. Also using previous knowledge and key vocabulary to accelerate their progress.	Pupils can record data in a variety of ways and can prove or disprove a hypothesis in a fair and safe manner.	Teachers plan opportunities for pupils to deepen their conceptual understanding across all three scientific strands. Pupils are armed with opportunities and the confidence to further their own knowledge.