

Following in the footsteps of Jesus, we Pray, Play and Learn Together



## **Science Curriculum Statement**

At Holy Family, we encourage children to be inquisitive throughout their time at the school and beyond. The Science curriculum fosters a healthy curiosity in children about our universe and promotes respect for the living and non-living. We believe science encompasses the acquisition of knowledge, concepts, skills and positive attitudes. The curriculum is designed to ensure that children are able to acquire key scientific knowledge through practical experiences; using equipment, conducting experiments, building arguments and explaining concepts confidently. The school's approach to science takes account of the school's own context, ensuring access to people with specialist expertise and places of scientific interest as part of the school's commitment to learning outside the classroom.

INTENT	IMPLEMENTATION	PLANNED IMPACT
Why our Science curriculum looks like this:	We believe that students deserve a broad and ambitious	The successful approach at Holy Family
At Holy Family we want our children to be naturally	Science curriculum, rich in skills and knowledge, which ignites	results in a fun, engaging, high-quality
curious about the world around them. Our curriculum	curiosity and prepares them well for future learning or	science education, that provides children
has been developed by staff to ensure full coverage of	employment. Science will be taught in planned and arranged	with the foundations and knowledge for
the 2014 national curriculum and to foster a sense of	topic blocks by the class teacher. Our Science curriculum will	understanding the world.
wonder about natural phenomena:	give students the opportunity to:	<ul> <li>Our engagement with the local</li> </ul>
Science should be exciting for young people, providing		environment, including our own
them with the skills and opportunities to improve	<ul> <li>Articulate scientific concepts clearly and precisely;</li> </ul>	wild flower garden, ensures that
their futures alongside the acquisition of knowledge,	We build upon the knowledge and skill development of the	children learn through varied and
concepts and positive attitudes.	previous years. As the children's knowledge and	first hand experiences of the world
Throughout our programmes of study, our children	understanding increases, they become more proficient in	around them.
will acquire and develop the key knowledge that has	selecting, using scientific equipment, collating and	• Through various workshops, trips
been identified within each unit and across each year	interpreting results, they become increasingly confident in	and interactions with experts,,
group.	their growing ability to come to conclusions based on real	children have the understanding
We will ensure that science is a largely practical	evidence.	that science has changed our lives
subject, which develops curiosity, enquiry and	<ul> <li>Develop practical skills by working scientifically;</li> </ul>	and that it is vital to the world's
reasoning skills. Children will therefore be able to	Working Scientifically skills are embedded into lessons to	future prosperity.
apply their knowledge of science when using	ensure that skills are systematically developed throughout the	Children learn the possibilities for
equipment, conducting experiments, building	children's school career and new vocabulary and challenging	careers in science, as a result of
arguments and explaining concepts confidently and	concepts are introduced through direct teaching. This is	our community links and
continue to ask questions and be curious about their	developed through the years, in-keeping with the topics.	connection with national agencies
surroundings.	<ul> <li>To accurately read and interpret technical terminology;</li> </ul>	including the STEM association.

<ul> <li>The key knowledge identified by each year group is informed by the national curriculum and builds towards identified phase 'end points' in accordance with NC expectations. Key skills are also mapped for each year group and are progressive throughout the school. These too ensure systematic progression to identified skills end points which are in accordance with the Working Scientifically skills expectations of the national curriculum.</li> <li>Every child will have: <ul> <li>An understanding of how science relates to everyday life and appreciate its contribution both in the present, historically and to our society and other cultures</li> <li>The opportunity to be prepared for life in an increasingly scientific and technological world.</li> <li>Developed attitudes enabling them to be observant, curious and caring about our environment.</li> </ul> </li> </ul>	Teachers demonstrate how to use scientific equipment, and the various Working Scientifically skills in order to embed scientific understanding. Teachers find opportunities to develop children's understanding of their surroundings by accessing outdoor learning and workshops with experts. • Understanding the uses and implications of Science today and for the future; Children are offered a wide range of extra- curricular activities, visits, trips and visitors to complement and broaden the curriculum. These are purposeful and link with the knowledge being taught in class. Regular events, such as Science Week allow all pupils to come off-timetable, to provide broader provision and the acquisition and application of knowledge and skills. These events often involve families and the wider community. • To see connections between subject areas and become aware of the big ideas underpinning scientific knowledge and understanding; At the end of each topic, key knowledge is reviewed by the children and rigorously checked by the teacher and consolidated as necessary.	<ul> <li>They learn from and work with professionals, ensuring access to positive role models within the field of science from the immediate and wider local community. From this exposure to a range of different scientists from various backgrounds, all children feel they are scientists and capable of achieving.</li> <li>Children at Holy Family overwhelmingly enjoy science and this results in motivated learners with sound scientific understanding.</li> <li>The school's science provision is recognised by the achievement of the nationally recognised 'Primary Science Quality Mark', which the</li> </ul>
observant, curious and caring about our		the nationally recognised 'Primary