

## Holy Family RC Primary School: Science

**“Great are the works of the Lord, studied by all who delight in them.” Psalm 111:2**

<p>Aim</p>	<p><b>Millions saw the apple fall, Newton was the only one who asked “Why?”</b></p> <p>Science teaching at Holy Family RC Primary aims to give children a strong understanding of the world around them whilst acquiring specific skills and knowledge to help them to think scientifically, to gain an understanding of scientific processes and also an understanding of the uses and implications of science, today and for the future. We want children to have a love of learning in Science. Through liaising with KS3 specialists’ subject leaders are aware of pupils’ next stages. In every subject we aim to develop knowledge of cultural diversity and raise aspirations. Pupils will be prepared pupils for key stage 3 science curriculum.</p> <p><b>‘Be humble for you are made of earth. Be noble for you are made of stars.’ Serbian Proverb</b></p>
<p>Overview</p>	<p>The intent at Holy Family is to develop primary scientists that are equipped with knowledge and skills to play an active role in future scientific activity. These skills are developed further through wider opportunities such as growing fruits and vegetables in our Polytunnel through Gardening Club. Our curriculum allows children to build upon their prior knowledge and increases their enthusiasm for the topics. All children are encouraged to develop and use a range of skills including observations, planning and investigations, as well as being encouraged to question the world around them and become independent learners in exploring possible answers for their scientific based questions.</p>
<p>Implementation</p>	<p>Science is a core subject within the National Curriculum. The science curriculum places a high value on secure and detailed knowledge, so that any experiences are enhanced and used as a tool to revisit and reinforce understanding. It is hoped that this intended knowledge and these experiences will inspire all pupils to be scientifically literate as they grow up, questioning the world around them and making links between different areas of learning. The ‘working scientifically’ aspect of the National Curriculum is an important part of science. These skills are mapped out to ensure progression, however these should not be used as mechanisms for teaching the knowledge and concepts but a tool for demonstrating them. Pupils will become empowered and strive for change in an uncertain world with an unpredictable future. It is key that knowledge content and practical skills are taught hand-in-hand, with children developing and building on their factual knowledge as they journey through the school, making links between topics applying skills and understanding from previous learning to new areas as they are met. As part of this it is also vital that they are exposed to and specifically taught the essential scientific vocabulary related to each topic in order to demonstrate their knowledge and understanding effectively.</p>
<p>EYFS</p>	<p>Science, within EYFS, is covered within the Understanding the World aspect of the EYFS Curriculum. We teach specific science knowledge and skills through topics mapped across the year, relating to the children’s interests. Children also have the opportunity within EYFS to explore and embed scientific skills and knowledge through enhancements and continuous provision. By the end of EYFS, children will have been exposed to, explored and developed knowledge and skills, which cover areas such as: Our Bodies, Seasons, Animals, Growing, Farming, Light and Dark</p>
<p>KS1</p>	<p>During science lessons, we will ensure that children are given the opportunity to ask ambitious questions and then plan and conduct investigations with the aim of answering these questions. In Years 1 and 2 their natural curiosity will be encouraged, and they will be given the opportunity to talk about what they have found out.</p>
<p>KS2</p>	<p>In Years 3 and 4, children will explore, talk about, test and develop ideas and begin to make some decisions about which types of scientific enquiry would be most effective. In Years 5 and 6, they will encounter more abstract ideas and begin to recognise that scientific ideas change and develop over time. Children will draw conclusions, use evidence to justify their ideas and use their understanding to explain their findings.</p>
<p>Impact</p>	<p>By the end of Year 6, children will have a secure and detailed knowledge of key scientific ideas and concepts. We hope this will inspire them to show curiosity in the world around them, to move forward as scientists at high school and enhance their own experiences beyond the classroom. We want our pupils to be scientifically literate and keen to question the ever-changing world around them. They will know, remember and be able to use a range of subject specific vocabulary. They will also be curious and be able to explore new technologies as they develop in an ever-changing world. They will be confident in their ability to problem solve when faced with technological challenges</p>