



## Our Vision for Science

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"Science is a way of life. It is a perspective. Science is the process that takes us from confusion to understanding in a manner that's precise, predictive and reliable – a transformation, for those lucky enough to experience it, that is empowering and emotional."  
- Brian Greene

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A high-quality science education provides the foundations for understanding the world through the specific disciplines of biology, chemistry and physics. Science has changed our lives and is vital to the world's future prosperity, and all pupils should be taught essential aspects of the knowledge, methods, processes and uses of science. Through building up a body of key foundational knowledge and concepts, pupils should be encouraged to recognise the power of rational explanation and develop a sense of excitement and curiosity about natural phenomena. They should be encouraged to understand how science can be used to explain what is occurring, predict how things will behave, and analyse causes. (DfE National Curriculum in Science).

At Holy Cross Catholic Primary School, we believe that if our pupils are to achieve their full potential within the Science curriculum, we must stimulate their curiosity through a range of engaging learning experiences; exploring both the theoretical and practical areas of science. We believe that through engagement with stimulating learning experiences, our pupils will become confident, independent and resilient with a social conscience for their journey through life. As a Catholic school, we are committed to developing pupils' awareness and appreciation of the wonders of God's creation. Science education, as well as being a satisfying and enjoyable experience in itself, should contribute to the enrichment and quality of life.

It is our intention to provide a high-quality science education that provides pupils with the foundations they need to recognise the importance of science in every aspect of daily life.

Our science teaching offers opportunities to:

- Access a broadly balanced, progressive curriculum which develops a wide range of skills to enable pupils to work scientifically and develop their knowledge of life and living things, materials and their properties and physical processes.
- Develop scientific skills to explain and interpret a range of familiar phenomena in everyday life.
- Consider ways in which living things and the environment need care, protection and respect.
- Use both first-hand experiences and secondary sources to investigate and acquire scientific knowledge.
- Develop skills and knowledge that will enable them to develop into healthy and happy individuals with an understanding of their place in the world.
- 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.
- Develop a respect for the materials and equipment they handle with regard to their own, and others safety.