

Introduction

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.

The 2014 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.

Curriculum Intent

At English Martyrs', we encourage children to be inquisitive throughout their time at the school and beyond.

The Science curriculum intends to develop a healthy curiosity in children and develop an appreciation of its contribution to everyday life. We believe science encompasses the acquisition of knowledge, concepts, skills and positive attitudes about our world.

Throughout the programmes of study, the children will acquire and develop the key knowledge that has been identified within each unit and across each year group.

We teach the five lines of inquiry that enable children to build understanding and make progression within the subject. These lines are:

- Observation over time
- Pattern seeking
- Identifying, classifying and grouping
- Comparative and fair testing
- Research using secondary sources

By the end of primary school, children should be able to describe processes and characteristics of science in common language, but they should also be familiar with, and use, technical terminology accurately and precisely. We help them to develop their extended specialist vocabulary. We support in applying their mathematical knowledge to their understanding of science, including collecting, presenting and analysing data.

We also develop pupils' practical skills and the ability to identify appropriate approaches to make accurate measurements, throughout their time at the school, so that they can apply their knowledge of science when using equipment, conducting experiments and explaining concepts confidently.

We support the children to read and spell scientific vocabulary at a level consistent with their increasing word-reading and spelling knowledge throughout the school.

We endeavour to help children to understand the wider world around them and encourage them to continue to ask questions and be curious about their surroundings.