



"The scientist is not a person who gives the right answers; he is the one who asks the right questions." - Claude Levi-Strauss.

At Wormholt Park, we recognise the importance of Science in every aspect of daily life. We ensure that all children, throughout their time at school and beyond, are encouraged to be inquisitive and ask questions in order to build an understanding of the world around them through the process of enquiry. The curriculum is designed to develop the natural curiosity of the child and for them to develop an interest and enthusiasm for Science.

We believe that the delivery of a rich and broad Science curriculum comprises of a balance of both subject knowledge and Working Scientifically. Throughout the programmes of study, the children at Wormholt Park will acquire and develop the key knowledge that has been identified within each unit as well as the application of scientific skills. Scientific enquiry skills are embedded in each topic and any concepts taught are reinforced by focusing on the key features of scientific enquiry, so that pupils learn to use a variety of approaches to answer relevant scientific questions. Children have the opportunity to work scientifically using a range of scientific enquiry: observing over time; pattern seeking; identifying, classifying and grouping; comparative and fair testing (controlled investigations); and researching using secondary sources.

It is equally important that these skills, both knowledge and enquiry based, are built-on and developed throughout children's time at the school. With the use of progression grids, we ensure that prior knowledge, skills and vocabulary are revisited and

developed throughout their time at school. Topics, such as Materials, are taught in Key Stage One and studied again in greater depth throughout Key Stage Two. This model allows children to build upon their prior knowledge and increases their enthusiasm for the topics whilst embedding this knowledge into the long-term memory.

At Wormholt Primary School, in conjunction with the aims of the National Curriculum, our Science teaching offers opportunities for children to:

- develop scientific knowledge and conceptual understanding through the specific disciplines of Biology, Chemistry and Physics;
- be equipped with the scientific knowledge required to understand the uses and implications of Science, today and for the future;
- 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 other children's safety;
- develop a set of attitudes which will promote scientific ways of thinking, including open-mindedness, perseverance, objectivity, risk taking and the importance of teamwork;
- build their self-confidence to enable them to work independently;
- develop their social skills to work cooperatively with others;
- provide them with an enjoyable experience of science, so that they will develop a deep and lasting interest and may be motivated to study science further.