



Intent, Implementation and Impact for Science

Intent

At Woodthorpe Primary School, we recognise the importance of Science in every aspect of daily life. As one of the core subjects taught in Primary Schools, we give the teaching and learning of Science the prominence it requires. Our principle Intent is to inspire in our children a curiosity and fascination about the natural and man-made world and a respect for the environment that will remain with them for the rest of their lives. Science allows children to develop an understanding of the world around them and helps them to develop a sense of excitement and curiosity. At Woodthorpe, using our Learning Journeys as the driver, our children are encouraged to develop their understanding through questioning, discovery and an immersive practical approach to science learning. We embed this by offering other experience, such as educational visits, residential and enrichment days.

Implementation

The effective approach we take at Woodthorpe Primary results in a fun, engaging, high-quality science education, that provides children with the foundations and knowledge for understanding the world. Using our Learning Journeys as the driver, where Woodthorpe children are given the opportunity to explore and question how the world around them works and to experience and lead different types of scientific enquiry. At Woodthorpe, our Science teaching takes place through a cross-curricular approach and involves making links and developing a questioning approach to science learning. Cross-curricular learning builds stronger and deeper understanding in children and science provides a key medium through which to achieve this. Through our planning, we involve problem solving opportunities that allow children to find out for themselves. We encourage our children to ask their own questions and be given opportunities to use their scientific skills and research to discover the answers. Planning involves teachers creating engaging lessons, often involving high-quality resources to aid understanding of conceptual knowledge. We build upon the learning and skill development of the previous years. As the children's knowledge and understanding increases, and they become more proficient in selecting, using scientific equipment, collating and interpreting results, they become increasingly confident in their growing ability to come to conclusions based on real evidence. To help inspire our pupils, learning also often takes place through active participation in outdoor visits and real-life experiences, we frequently hold Science days in which every year group participates in investigations and workshops across a wide variety of scientific areas. We have a strong relationship with the Advanced Manufacturing Park where the children have the opportunity to access experts in this world-leading innovation centre which complement and broaden the science curriculum.

Impact

At Woodthorpe, we have a consistent, well-constructed and well-taught Science curriculum. Our children are encouraged, where possible, to lead their own learning and develop this through independent exploration. Through their learning and experiences, we aim to encourage our children to develop a sense of excitement and curiosity and provide them with the necessary skills and knowledge to become young scientists.