

Our Intent, implement and impact statement for science.

Intent

As children develop a curiosity in learning about the world around them, at Coningsby St. Michael's we aim to nurture this through the teaching of science with a focus on scientific knowledge and enquiry skills. We aim to progress these two aspects of the subject through a hands-on, inquiry-based practical curriculum that aims to satisfy our children's inquisitiveness. Science is all around us so we use the school's outdoor learning areas and Mystical Garden to support the teaching of this subject.

Implementation

The acquisition of key scientific knowledge and working scientifically are a fundamental part of our science lessons. Science topics are taught within each year group in accordance with the National Curriculum and follow progression statements throughout each topic. At the start of each topic children will review previous learning and will have the opportunity to share what they already know about a current topic. At the end of a topic children use a range of methods to show what they have learnt and teachers use various assessment tools to ensure all children are accessing the science curriculum. Teachers plan lessons that enable children to learn and retain the important, useful and powerful vocabulary and knowledge contained within each unit. The progression of skills for working scientifically are developed through the year groups and scientific enquiry skills are the basis for planning each lesson. Our whole school approach to the teaching and learning of science evolved from listening to children and how they wanted to learn about science and involves the following principles;

- Children are hooked and engaged in their learning, finding the topic interesting and fun.
- Children have the opportunity to generate curiosity through investigation and exploring learning questions.
- Children are actively exploring using practical equipment and the amazing outdoor spaces as resources to discover something new.
- Children understand what they are learning and how it relates to their everyday lives
- Children are using relevant scientific vocabulary to enhance their understanding of different topics.

Impact

This methodology of teaching of science at Coningsby St. Michael's results in engaging, fun high quality teaching and learning of science that provides children with opportunities for understanding the world around them that they can take with them to further education. Our amazing Mystical Garden and outdoor provision lends itself to outdoor learning, to provide children with opportunities to experience hands on practical science. Children learn the possibilities for careers in science as a result of our community links with BAE systems and the STEM activities provided by RAF Coningsby ambassadors. We listen to pupil voice each term to further develop the Science curriculum, through questioning of pupils' views and attitudes towards Science, to assess the children's enjoyment of science, and to motivate them as learners.