

Corvedale Science Intent Implementation Impact Statement

Intent

It is our intention through Science at Corvedale Primary School to develop in all our pupils a lifelong curiosity and interest in the world around them. We provide a high-quality science education that provides children with the foundations they need to recognise the importance of Science in every aspect of daily life. We give the teaching and learning of Science high prominence and teachers ensure that all children are exposed to high quality teaching and learning experiences. Children will be encouraged to ask questions about the world around them and work scientifically to further their conceptual understanding and scientific knowledge. Our curriculum will enable children to become enquiry-based learners collaborating through researching, investigating and evaluating experiences. It will encourage respect for living organisms and for the physical environment. As our children progress through the year groups, there will be an emphasis on developing and understanding of key scientific vocabulary. They will build on their skills in working scientifically, developing greater independence in planning and carrying out fair and comparative tests to answer a range of scientific questions. Our Science coverage ensures that children have a varied science curriculum that provides the opportunity for progression across the full breadth of the science national curriculum for KS1 and KS2.

Implementation

The acquisition of key scientific knowledge is an integral part of our science lessons. Linked knowledge organisers 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. Children's Scientific knowledge and enquiry skills are developed with increasing depth and challenge as they move through the classes and year groups. Interwoven into the teaching sequence are key facts and questions to support assessment. These allow our class teachers to assess children's levels of understanding at various points in the lesson. We encourage opportunities to recap concepts prior to each session and our sequence of lessons helps to embed scientific knowledge and skills, with each lesson building on previous learning. Activities are effectively structured so that all children have an appropriate level of support and challenge. Our teachers are equipped with secure scientific subject knowledge, enabling them to deliver high-quality teaching and learning opportunities and are aware of possible scientific misconceptions and have been directed towards CPD that supports reinforcement of this knowledge.

Impact

The successful approach to the teaching of science at Corvedale Primary School results in a fun, engaging, high quality science education, that provides children with the foundations for understanding the world that they can take with them once they complete their primary education. Assessment at Corvedale School is teacher based and formed using formal strategies and informal strategies. Our Science progress is measured through the children's ability to know more, remember more and explain more. The use of key questions ensures opportunities are built into the lesson for ongoing assessment and targeted support. Children at Corvedale Primary will demonstrate a love of science work and an interest in further study, work in this field articulating their understanding of scientific concepts and reasoning scientifically using rich language linked to science progressively.