



## Science Vision

Our vision at Deanery Primary School is to give children a science curriculum that enables them to experience the joy of discovery. Empower them to know and believe that one day they could be the inventor, creator, significant, key figure that future generations learn about in school because of what they brought to science. To achieve this, our aim is to encourage every child to be curious. Teachers actively encourage the children to ask questions, challenge ideas and create opportunities for them to be “active learners,” where they are in control of exciting, practical investigations that foster a love of learning and finding answers.

At Deanery, this science curriculum is taught by revisiting learning in different contexts to prevent a ‘heavy short term memory overload.’ It is taught using the B.A.D concept (learning topics at a basic, advancing and finally deep level – Chris Quigley). It is initially implemented by introducing each topic to a year group and learning ‘fundamental foundations’, followed by a period of time before learning is revisited and applied to increase exploration and understanding of knowledge. A final revisit of each topic where knowledge, skills and understanding of the fundamental foundations are used in a creative, inventive way, showing a deeper understanding of the subject and the connections across the curriculum.

Children are taught science specific vocabulary across all topics with teachers modelling correct use when teaching and encouraging the children to use vocabulary rich phrases and sentences when discussing and recording their scientific understanding. Misconceptions and misuse of vocabulary is corrected using a positive approach and corrected accordingly. We teach our children to “think like scientists”, particularly when working scientifically. From early years through to Year 6, children are taught and encouraged to: ask questions, observe, test, identify and classify and record their findings and ideas. These skills are developed as the children progress through their primary education, building on previous learning and continuing to work scientifically at a deeper level with increasing complexity, accuracy and control.

At Deanery, we are very fortunate to have large school grounds, a garden area where the children can plant and grow their own produce, as well as the local woods which are used to explore many aspects of the curriculum including: exploring seasonal changes, animals and their habitats and living things. We are also in the process of developing our Forest School Area for all children to access as part of their learning. Creating opportunities for the children to utilise these resources enable them to develop their knowledge and understanding of the world around them, and their natural sense of curiosity.

We believe that the fun, cross-curricular opportunities we provide for the children will encourage them to be confident, life-long learners who will explore the world around them and aspire to aim high. This is manifested in our weekly science lessons and our annual science week. During this time, visitors are invited to come into school to discuss their careers with the children, whilst also providing practical, hands on experience for them to challenge their aspirations. This also enables teachers to show children how major scientific

ideas contribute to technological change and how this affects improving the quality of our everyday lives.

Through teaching styles that value collaboration, communication, creativity, critical thinking, curiosity, problem solving as important elements of science learning, children will show a deeper, more secure understanding of science. When pupils leave Deanery Primary School, we hope that we have provided them with the skills and knowledge to explore their curiosities and that they will be inspired to question, hypothesise, research and investigate through collaboration and discussion to make real life connections and understand the important role science plays in all aspects of life.