



Moor First School

Science

'Together we unlock **potential** and **learn** for life.'

Intent

At Moor First School we believe that the best science teaching fosters and develops children's curiosity in the world around them whilst also taking an inclusive approach and supporting every pupil to fulfil their potential. Our powerful, knowledge rich curriculum is thought provoking and teaches children about the scientific disciplines of Biology, Chemistry and Physics. Their scientific knowledge, skills and vocabulary are developed, with plenty of opportunity for children to work scientifically and develop their skills of investigation and enquiry. Through inspirational teaching and explorative learning, children will develop their enthusiasm for science so that they can understand and appreciate the uses and implications of science, today and for the future.

Implementation

At Moor First, we follow the National Curriculum Programmes of Study. The foundations for learning and development of initial science skills are achieved in the Early Years Foundation Stage, where science is taught through 'Understanding of the world' and developed through integrated class topics. Key Stage 1 and 2 mixed age classes follow a two year rolling programme to ensure full coverage of the curriculum, with topics being organised in a way to support children's growing knowledge and retrieval of prior learning. Children are taught through a concept curriculum, enabling them to make links within their learning across topics and to retain knowledge and skills. This will then be built upon as each new topic introduces specific core knowledge, skills and vocabulary. Working scientifically skills are included within each half termly block. These enable the children to embed working

methodically, understand the different types of scientific enquiry and carry out comparative investigations. Activities from 'Explorify' are embedded into science lessons, encouraging children's scientific thinking and developing their curiosity.

Teaching is underpinned by Rosenshine's principles and lessons follow the structure of a model, followed by a 'we do' and 'I do' approach. This gives children the support needed to become independent learners. Activities are inclusive, matching children's needs and abilities so that all children can participate in science lessons, make good progress and be inspired by what they are learning. It is expected that children demonstrate high quality handwriting when completing written work, for example writing up experiments.

Science themed days, school visits and visitors to school give children the opportunity to further their knowledge and see how science is present in everyday life and the world around them. School assemblies regularly celebrate and commemorate scientific discoveries and inventions and enable children to find out more about important developments in science. Frequent outdoor exploration invites children's curiosity in their immediate environment and provides further learning opportunities.

Impact

The teaching of science at Moor First School inspires children and develops their sense of awe and wonder in the world around them. Children's knowledge will give them the confidence to articulate scientific concepts clearly and precisely. They will gain independence to work scientifically and to plan, carry out and evaluate investigations, learning about science, where possible, through first-hand experiences. Children will have the confidence to ask questions and develop the skills that they need in order to answer them, including enquiry, making predictions, observation, measuring, evaluation, problem solving and research. Their science education will develop and extend their scientific knowledge, understanding and enquiry skills, providing them with lifelong skills that will be used by them throughout their education and beyond.