Science

Subject on a page

Excellence Through Enjoyment

At Foxmoor we recognise the importance of Science as an integral part of all learning, providing a foundation for understanding the world around us, being able to ask questions and seek answers. We foster an enjoyment and curiosity of the subject through engaging weekly lessons as well as special events such as British Science Week. We are fortunate to have beautiful grounds in our school, including an Eco garden with a pond, that help us support outdoor learning.

FOXMOOR PRIMARY SCHOOL

Intent - We aim to:

- Deliver an engaging curriculum that encourages our pupils to ask questions and search for answers.
- Allow children to critically engage with Science by providing them with opportunities to think, investigate and discover things independently.
- Support all pupils in accessing high-quality Science teaching that challenges diversity stereotypes, both within and outside the classroom.
- Spark the pupil's interest in Science and develop their natural curiosity.
- Widen the children's knowledge and use of scientific vocabulary.
- Develop our pupils' understanding of the nature, processes and methods of science through a range of scientific enquiries.

Implementation - How do we achieve our aims?

Curriculum design

- Clearly sequenced, progressive and ambitious program of study based on the National Curriculum objectives
- High quality teaching that is pitched appropriately to suit the needs of all children
- Meaningful connections made between topics so that they build into a significant body of knowledge across a wide range of aspects

Practical work

- Answers to questions sought through collecting, analyzing and presenting data
- Pupils work scientifically by: observing over time; pattern seeking; identifying, classifying and grouping; comparative and fair testing; and researching using secondary sources
- Interactive lessons encourage children to investigate problems, learn how Science works and discover why Science matters in the world
- Practical work is a vital element of school science as hands-on learning experiences are key to the development of skills and the tying together of practical and theory

Vocabulary

- Vocabulary is carefully planned to feed through EYFS to Year 6, ensuring children develop scientific literacy
- Pupils are taught to read, spell and pronounce scientific vocabulary accurately
- Previous year's vocabulary revisited alongside introducing and embedding new vocabulary
- Vocabulary displays in classrooms support children's learning and retention of scientific terms

Knowledge rich

- Science taught with knowledge at its core
- Carefully planned units that allow pupils to know more and remember more
- Knowledge gained allows pupils to explain what they have learnt from the scientific process

Impact - How will we know when we have achieved our aims?

- Pupils are engaged in their learning and share a passion for Science.
- Pupils can read, spell and pronounce scientific vocabulary accurately. They are confident in the use of key vocabulary in a range of contexts.
- Pupils develop a range of scientific skills. They think independently, raise questions, carry out scientific investigations to demonstrate their understanding in a variety of ways.
- Pupils know more and remember more, demonstrating good progress from their starting points.
- Widen the children's knowledge and use of scientific vocabulary.
- Pupils have the ability to explain their own scientific thinking. They confidently apply their scientific knowledge to other areas of learning.