



Science at Wolverton Primary School

Impact

Pupils record their learning in science books. Assessment of each unit informs future planning and enables teachers to adapt lessons, which ensures that the pitch of lessons is well matched to individual pupils needs. Summative assessment of pupils' learning and understanding is assessed against the National Curriculum statements for each year group / key stage phase. Outcomes are shared with leaders & parents. Leaders conduct monitoring activities including book trawls, learning walks, lesson observations, and pupil interviews with the children to discuss their learning and establish the impact. The hands on, practical approach to science produces pupils who thoroughly enjoy science and this results in motivated learners with sound scientific understanding.

Aims for science

Through the study of biology, chemistry and physics develop pupil's scientific knowledge and conceptual understanding.
Through science enquiries and answering scientific questions about the world around them develop pupil's an understanding of the nature, processes and methods of science.
Equip pupils with the scientific knowledge required to understand the uses and implications of science, today and for the future.

Intent

Science is taught through themes as part of a whole school theme based approach to teaching and learning. This enables teachers to forge cross curricular links giving a meaningful context for learning, with scientific enquiry skills embedded throughout.
The science curriculum provides pupils with the opportunities to look at the world around them whilst acquiring specific skills and knowledge to help them to think scientifically.
Focused activities are used alongside practical tasks to provide pupils with hands on experience of carrying out their own investigations. Pupils are given the opportunity to suggest and test hypotheses, consider how to make a test fair, observe and record results and draw conclusions.

Implementation

Units of work are planned out across a two year rolling programme, with links made to topic themes where appropriate. All staff frequently review and adapt teaching and learning to meet the needs of our pupils, allowing for progression and depth. A variety of learning opportunities are used to deliver our curriculum, and lessons are as hands on and as creative as possible, whilst still making learning explicit. Across all year groups the key elements of working scientifically are incorporated into a units of learning. There is a clear progression of skills across year groups, which is essential for the next stage of the children's scientific education.
By the end of Key Stage Two, all children will have developed scientific enquiry skills in the five key areas: observing changes over time, noticing patterns, grouping and classifying things, finding things out through secondary sources of information and modelling. We want children to be immersed in science, to reinforce the skills that they have previously learned, then build on these by challenging their thinking further.