



Science curriculum statement

'The scientist is not the person who gives the right answers; he is the one who asks the right questions' Claude Levi-Strauss

Intent

We take a 'hands on' approach to science learning at Boston West Academy. The science curriculum encourages children to develop an enquiring mind, to hypothesise, predict and question the world around them. Practical investigations and experiments underpin our intent for the science curriculum, allowing children to fully develop their skills as well as gaining hands on practical experience of science in action. Through conducting scientific experiments, we enable children to develop their skills of prediction, following a method, recording results, drawing conclusions and reasoning. We want all our children to apply the scientific knowledge they have learnt to the real world and understand how science can be used in future careers. Our science curriculum is ambitious and designed to give all learners including those with SEND the knowledge and skills they need to succeed. Children engage in study across a range of scientific areas including habitats, materials, humans and animals, forces, electricity, light, sound and plants. We hold the PSQM outreach award which recognises our excellence in science teaching and leadership at Boston West and our commitment to outreach work too. We have also taken part in several projects and initiatives, including being finalists for the Rolls Royce prize, which have embedded and improved our science provision for children.

Implementation

Our science curriculum at Boston West, is underpinned by the national curriculum. To ensure consistency and progression across school, we utilise the PLAN documents from the Association for Science Education (ASE) to guide science planning for both the teaching of knowledge and the working scientifically skills. New learning is always built upon prior learning from previous year groups or key stages. The explicit teaching of key scientific vocabulary, linked to the topic of study, is threaded throughout science teaching to ensure children have a strong understanding and application of this. The working scientifically skills are progressive to ensure that skills are built upon, developed and secured as children move through our school. Science is assessed at the end of every scientific unit of study and children are given the opportunity to demonstrate what they have learnt. Our science curriculum links closely with our outdoor learning curriculum and our school grounds play a significant role in the delivery of the curriculum.

Impact

Pupils will:

- Develop an enquiring mind
- Ask and answer their own questions
- Use different types of scientific enquiry
- Present their data in a range of ways
- Make observations and comparisons
- Identify patterns
- Use scientific evidence to support their findings
- Understand how science applies to the real world

Working together for success



- Have a strong understanding of scientific vocabulary
- Carry out research using secondary sources

Impact is measured through both formative and summative assessment opportunities. Assessment data is collated three times a year to inform an end of year judgement which is reported to parents.