Curriculum Statement for the Teaching and Learning of Science

At Barton Church of England Primary School we are committed to providing a curriculum that is designed to engage and inspire our pupils to become creative and independent thinkers, evidencing a love of learning and a thirst for knowledge. We aspire to promote the skills needed to persevere with learning challenges and the curiosity to enquire further.

<table>
<tr><th colspan="5">Intent - the aims of our school in helping our children develop and learn.</th></tr>
<tr><td colspan="5">At Barton Primary School, our intent when teaching science is to prepare our children for their future with a “hands-on”, inquiry-based science curriculum that enables them to confidently explore and discover the world around them. We seek to motivate and actively engage our children, to nurture and grow their curiosity and develop a thirst for learning. Core scientific knowledge and skills are taught through direct teaching, experimentation and exploration, contributing to their understanding of scientific facts and concepts, as well as their ability to ask and answer questions scientifically. Our intent is for all our children to be life-long learners who are inquisitive, independent thinkers, confident to ask ‘Big Questions’ and who are prepared and equipped for their future in the ever-developing and changing world.</td></tr>
<tr><th colspan="5">Implementation - what we do every day to encourage discussion and whole hearted-engagement of our pupils.</th></tr>
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<td>Curriculum and Skills
In science, we develop the children’s scientific fact and concept knowledge through the study of 6 units across each year, in line with what is specified in the National Curriculum. Alongside scientific content, we also develop the skills that enable the children to work scientifically, experimenting, hypothesising, data-collecting and drawing conclusions. Children are encouraged to ask questions and consider different ways</td>
<td>Planning and Delivery of Curriculum
Based upon the National Curriculum Objectives, we have designed a science curriculum that draws skills and knowledge links across the subjects within units and topics on a rolling 2 year programme.</td>
<td>Challenge and Support
Teachers create a positive and enthusiastic attitude towards science, supporting children with scaffolded and differentiated tasks and extending their learning through challenging follow-up work. High expectations are set in response to the view that all children can achieve well in science.</td>
<td>Enrichment
Our science learning is enriched through Science Week topics, shared by all year groups. Visits and visitors are organised to share their expertise, bringing a real-life and relevant context to the children’s learning.</td>
<td>Home Learning
Each half term, children deliver a presentation to their class on an aspect of their learning that they have pursued independently at home.
These projects, including Science projects, provide an opportunity for wider research in response to the child’s own interests from across the curriculum.</td>
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of answering them, learning about the work of real-life scientists in the process.				

Impact - how we know our teaching is making a difference

Pupil Voice Pupil voice is used to develop the science curriculum through the questioning of pupils' views and attitudes towards science, especially after Science Week.	**Governor Voice** Regular meetings with subject leaders alongside classroom visits and discussions with school council and other children enable the governors to evaluate the impact of our science provision on learning.	**Assessing Developing Skills and Knowledge and Progress** The children's attainment and progress within a unit is assessed by means of regular book scrutiny as a teaching team and SLT, alongside planning scrutiny and lesson observations. Science content is assessed before and after each unit and working scientifically objectives are assessed half termly. Whilst there is no formal standardised test, the children's achievements reflect planned outcomes and attainment is measured against Age Related Expectations set out in the National Curriculum at the end of each school year.