



Science

Statement of Intent, Implementation and Impact

*At Braishfield Primary School, our **Purpose** is to **help every child grow** to be the best version of themselves that they can be. By educating each child emotionally, physically, spiritually and academically, we will prepare them for their future. In doing this, we will equip our children with the life skills to become confident, caring citizens who can play a positive and active role in modern society.*

*Our **Vision** for the school is a positive, nurturing and happy school community, based on **kindness, honesty and respect** for ourselves, each other and for our environment. We will all strive to be successful lifelong learners by developing **inquisitiveness, independence, collaboration and resilience**. We will all strive for excellence in everything that we do. We will all be brave, resilient learners, prepared to take learning risks and learn from our mistakes.*

Intent

At Braishfield, it is our intention to provide a high quality science education that provides children with the foundations they need to recognise the importance of Science in every aspect of daily life. We give the teaching and learning of Science high prominence.

Our curriculum will enable children to become enquiry based learners collaborating through researching, investigating and evaluating experiences. It will encourage respect for living organisms and for the physical environment.

Teachers will ensure that all children are exposed to high quality teaching and learning experiences. The children will be immersed in purposeful, practical activities. These will hook the children's interest, enabling them to develop a sense of excitement and curiosity about natural phenomena. They will be encouraged to ask questions about the world around them and work scientifically to further their conceptual understanding and scientific knowledge.

Children will be able to draw upon and make connections with previous learning.

Children will be encouraged to understand how science can be used to explain what is occurring, predict how things will behave, and analyse causes. It will provide opportunities for the critical evaluation of evidence and rational explanation of scientific phenomena as well as opportunity to apply their mathematical knowledge to their understanding of science, including collecting, presenting and analysing data. Children will be immersed in key scientific vocabulary, which supports in the acquisition of scientific knowledge and understanding.

All children will be provided with a broad and balanced science curriculum which reflects the equality and diversity policies and practice in school.

Implementation

At Braishfield, the Hampshire schemes are followed to ensure a clear progression across the school. Teachers create a positive attitude to Science learning within their classrooms and reinforce an expectation that all children are capable of achieving high standards in Science.

Science will be taught weekly by the class teacher with a big question being shared at the beginning of each unit and referred to throughout.

Each lesson will start with monthly and weekly retrieval practise, giving the children opportunities to keep revisiting prior learning and vocabulary.

Through our planning, we involve purposeful practical activities that allow children to find out for themselves. Children are encouraged to ask their own questions and are given opportunities to use their scientific skills and research to discover the answers. This curiosity is celebrated within the classroom. Planning involves teachers creating engaging lessons, often involving high-quality resources to aid understanding of conceptual knowledge.

Teachers use precise questioning in class to test conceptual knowledge and skills and assess children regularly to identify those children with gaps in learning, so that all children keep up.

We build upon the learning and skill development of the previous years. As the children's knowledge and understanding increases, and they become more proficient in selecting, using scientific equipment, collating and interpreting results, they become increasingly confident in their growing ability to come to conclusions based on real evidence.

Disciplinary knowledge is embedded into lessons to ensure these skills are being developed throughout the children's school career and are tracked regularly by teachers to ensure good coverage of all skills. New vocabulary and challenging concepts are introduced through direct teaching. The purpose of all practical work is identified by each teacher at the start of lessons. Teachers demonstrate how to use scientific equipment, and the various Working Scientifically skills in order to embed scientific understanding. Teachers find opportunities to develop children's understanding of their surroundings by accessing outdoor learning.

Monitoring of Science takes place with strengths and next steps identified.

Impact

The successful approach at Braishfield Primary school means that children enjoy and are enthusiastic about science in our school. There is a clear progression of children's work and teachers' expectations in our school. Children are ready for their next steps in Science learning as they move through school and onto Secondary School.

Children's work shows a range of topics and evidence of the curriculum coverage for all Science topics.

Children are becoming increasingly independent in Science, selecting their own tools and materials, completing pupil lead investigations and choosing their own strategies for recording.

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