



Science at Braunston School



At Braunston C.E. School, we are passionate about nurturing your child's excitement and curiosity about the world, whilst developing their knowledge and understanding of it. Our aim is for them to acquire the knowledge, skills, concept understanding and positive attitudes needed to help them think and express themselves scientifically, whilst being fully aware of the significant impact science can have today and in the future.

Intent:

As to the National Curriculum for Science our intention is to ensure all pupils:

- ♣ develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics
- ♣ develop understanding of the nature, processes and methods of science through different types of science enquiries that help them to answer scientific questions about the world around them
- ♣ are equipped with the scientific knowledge required to understand the uses and implications of science, today and for the future.

Implementation:

During the Early Years Foundation Stage and Key Stage 1, your child will be given plenty of opportunities to observe the world around them and will be actively encouraged to ask questions about what they notice. Our beautiful school grounds and the surrounding area are used extensively, to develop their enquiry skills, and accurate use of scientific language is encouraged at all stages, with a focus on our children being able to express their ideas and understanding in a variety of ways. We teach the knowledge that children need to learn in order to progress through our curriculum alongside the scientific skills such as gathering data, performing simple tests and identifying and classifying. For those elements of the science curriculum we are unable to deliver practically, there will be access to a wide range of secondary sources, including videos, models, books and images. Please refer to our long term science plan for detailed information about topic area taught in each year group.

As your child progresses into Key Stage 2, we support them in broadening their scientific view of the world and deepening their understanding of a wide range of scientific concepts through practical exploration where possible. As they move through the key stage, they will be encouraged to become more independent: using the scientific skills they have developed to make their own decisions about enquiries and extend their understanding of different concepts. They will also become more aware of how our understanding of science is evolutionary: our ideas develop and become more sophisticated over time as technology

advances and discoveries are made. Exploration of the school grounds and our surrounding area continue to be an intrinsic part of our science teaching for many topics and where practical exploration is not possible access is available to varied and motivating secondary sources of information. By the end of Key Stage 2, our children should be accomplished at drawing evidence-based conclusions about concepts they have explored and be able to express their findings in a variety of ways using precise and accurate scientific vocabulary.

Throughout their time at Braunston Primary, our pupils will develop their scientific enquiry skills and broaden their knowledge and understanding of a wide variety of scientific concepts and ideas so they are confidently able to express and extend their scientific expertise.

Science forms part of our school's aim to provide a broad and balanced education for all, whatever their ability. We achieve this by nurturing excitement and curiosity about scientific ideas and concepts; progression of scientific skills and enabling children to express their scientific understanding in a variety of ways, taking into account their learning needs, whether they need support because they have special needs or further challenge because they are scientifically gifted and talented.

Impact:

Through our science curriculum, our children will acquire an excellent knowledge of a range of scientific ideas and concepts and be able to demonstrate a variety of scientific skills including asking relevant scientific questions, planning and carrying out scientific enquiries, reporting findings and setting up further enquiries.

We assess this impact by the regular monitoring of our teaching and the assessment of pupils' learning and understanding.

Science in EYFS is encompassed within the 'Understanding the World' area of learning. This occurs through playing and exploring, being active, and through creative and critical thinking which takes place both inside and outside. Ongoing observational assessment of each child's achievements, interests and learning styles informs planning and leads to an EYFS Profile summary against the Understanding the World strand.