



Science Intent

"Science - it's like magic, but real." - Arthur C Clarke

Our aim at Burlington Infant School is to provide an ethos and atmosphere where all children enjoy and develop a good understanding of science regardless of their background, needs and abilities. We aim to develop and harness our children's natural curiosity and wonder about the world around them, helping them to develop their skills and to prepare them for a life in an increasingly scientific and technological world.

Our school delivers the EYFS and KS1 National Curriculum through mainly hands on, practical lessons with 'working scientifically' at its core. Through our science topics we encourage the children to develop their curiosity and passion for science, both in the classroom and outside. We provide many opportunities for developing scientific skills and knowledge through the use of our school and local environment, educational visits and study of other countries and areas of the world. Our approach to science encourages children to ask thought provoking questions, make close observations, classify, predict and use their senses to find out why things happen in certain ways. Meaningful links with other subjects are made to strengthen understanding and support the children to make meaningful connections.

We aim to build enthusiastic scientists who leave our school ready to continue their scientific journey into KS2 and beyond.

How is our intent implemented in the classroom?

We will use a range of strategies to introduce, explore and fully understand scientific learning. At the beginning of each topic, learning is started by revisiting prior knowledge, allowing children the opportunity to reflect on their existing scientific knowledge through discussion. Pupil voice is at the core of the classroom and at the beginning of each topic children will be encouraged to ask questions about what they would like to know or find out.

Adults will model the subject specific vocabulary, knowledge and skills relevant to the children's learning to allow them to independently integrate this into larger concepts. Our Science teaching provides children with first-hand experiences and opportunities to work scientifically in order to develop their scientific understanding. Concrete resources and the outdoors are used when appropriate to ensure children are given the opportunity to engage in hands on, practical lessons enabling children to work scientifically. They are helped to develop their understanding of scientific ideas by using different types of scientific enquiry to answer their own questions, including observing changes over a period of time, noticing patterns, grouping and classifying



things, carrying out simple comparative tests, and finding things out using for example, books, photographs and videos. We encourage our children to use scientific language to talk about what they have found out and communicate and record their ideas and findings in a variety of ways.

Learning will be adapted to suit each year group and each individual learner so that they are able to achieve their personal best with their science learning. In EYFS science can be found within 'Understanding the World', 'Personal, Social and Emotional Development' and 'Communication and Language.' Reception children are encouraged to ask 'why' questions and use their senses and simple equipment to explore the world around them.

Consistent displays in every classroom provide constant scaffolding for children. Subject specific vocabulary is displayed along with key questions, key facts and exemplars of the work being taught. Children are given the opportunity to explore science in a cross curricular way and a range of visits and events are experienced to engage and promote science in school, and beyond.

What is the impact?

As a result of our science teaching at Burlington you will see:

- Engaged learners who have a real sense of awe and wonder about the world they live in and have a good understanding of key scientific concepts and skills
- Children asking questions to satisfy their natural curiosity
- Children that are able to communicate their ideas using scientific vocabulary
- Children's work that demonstrates that science is taught in an appropriate sequence, building on from prior learning, and providing a sufficient challenge
- Pupil voice being used to show that children enjoy science and are confident scientists

We aim for all children to have the science knowledge, skills and enthusiasm needed for the next stage of their learning journey.