



Science

Intent, Implementation and Impact

Intent

Our aim at Burlington Junior School is to provide an ethos and atmosphere where children enjoy and develop a good understanding of different areas of Science (biology, physics, chemistry) according to outcomes stated in the National Curriculum. We also aim to provide children with an understanding of Environmental Science as well as knowledge about past and present scientists. We strive to ensure that all our boys and girls know that they can access Science as equals and can attain careers in Science related jobs in the future.

Implementation

We improve scientific understanding by enhancing: observational skills, curiosity, deeper thinking, independence, the ability to take time to consider, working collaboratively and becoming more resilient. Children are able to refine key scientific skills whilst using equipment including microscopes, data loggers and various measuring equipment. They learn how to use these accurately, take repeat measurements, record and analyse. Pupils plan and complete investigations, form conclusions and think about ways to proceed forward from investigations. We are working hard to develop STEM skills, in boys and girls, to ensure that all our children understand and have a feeling of belonging regarding Science as a subject. Opportunities are provided to enhance knowledge and understanding in making and creating, which develops engineering knowledge and other valuable cross-curricular skills.

Children are given many opportunities to learn and explore Science in a cross curricular way. A large range of visits, visitors, events and projects are experienced to engage, showcase and promote Science in school and beyond. The many Science successes are shared within the school, between Burlington and other schools and across the community.

Impact

At Burlington, children are confident, enthusiastic young scientists who take pride in their Science work and the Science reputation of the school. This is evident through observation of work around the school, via Twitter, the school website, through local media, our newsletter, our Enthuse Partnership blog and Science publications.

Impact is measured using a range of formative and active assessment methods. Teachers assess individual pupil's scientific knowledge and working scientifically skills. A tracker based on National Curriculum objectives is used to inform teachers and leaders of the skills and knowledge the pupils have achieved or need to improve further. The Science Lead and school leaders closely monitor all pupil's books and progress. In addition, pupil voice is used to enable the Science lead to assess the impact of Science across the curriculum.