



Policy for Science

Intent

Our intent is to ensure that children across the whole school develop an enquiring mind about the world around them. From play-based exploration through to methodical investigation and research, all children will broaden their knowledge of a range of scientific concepts. They will be encouraged to explore 'big questions' about how the world around them works, enjoy investigations and begin to learn how to discuss what they have found out. The ways in which science impacts on all of our lives will be explored, demonstrating the practical uses of what they learn.

Our key aims are to:

- Engage in and explore the world around them
- Understand their place in school, home and local community
- Develop understanding of the natural and human world around them through first-hand practical experiences
- Broaden, explore and test ideas about everyday phenomena and the relationships between living things.
- Deepen knowledge of scientific concepts, & encounter & explore more abstract scientific concepts

Implementation

Science will be covered within the Our World curriculum. Long term plans have been carefully drafted to ensure coverage of all subjects over the cycle and build on prior learning. Where appropriate to the learners and the topic, science will be taught weekly, though in other classes may be delivered as part of a holistic approach. Learning will be appropriately differentiated and planned to enable pupils to reach their full potential, with aspirational targets for all.

Within the semi-formal pathway, science will be play-based and experiential. Lessons will utilise children's natural curiosity and interest in the world as they are encouraged to explore concepts and changes. They will be given the tools to be able to communicate what it is that they have found out from their investigations and to develop explanations for what they have seen. They will begin to use their own ideas to sort and classify following their own ideas for groups.

As children progress through towards a formal pathway, they will take part in practical experiences that will further their understanding of the natural and human world. Their own interests will be developed and pursued as they begin to investigate ideas, learning how to describe a fair test and make predictions about what they may see. They will collect and record data, developing confidence using a range of equipment, and will learn how to discuss what their results have shown and what conclusions they may be able to make from this. Topics will cover areas of biology, chemistry and physics, including such areas as the digestive system, states of matter and light and dark

Impact

The Curriculum Coordinator will use work monitoring, pupil voice, planning moderation and patterns reflected in learning walk feedback to assess the quality of the curriculum and the progression of pupils. All of these processes will be completed regularly throughout the year and will be overseen and monitored by SLT.



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Health and Safety

Teachers must consider all relevant Health and Safety issues. Please refer to schools' health and safety policy and specific risk assessments. Particular attention must be given to avoiding the use of anything that aggravates individual pupils' allergies. Pupils are encouraged to assess hazards and discuss the appropriate precautions. Pupils are taught the appropriate safe practice when using equipment. This will include: how to use equipment correctly and in accordance with health and safety guidelines.

Enquiries and questions

The school welcomes enquiries or questions about Science. In the first instance parents should contact their child's class teacher.