

Science Curriculum Statement

Intent:

At Water Street, we believe children should experience inspiring science that builds their understanding of the value and place of science in their lives. They should also understand that science has changed our lives and is vital to the world's future prosperity, and all pupils should be taught essential aspects of the knowledge, methods, processes and uses of science.

We will deliver a curriculum that aims to:

- to develop the natural curiosity of children about the world around them;
- to engender a sense of awe and wonder with Science
- to develop questioning and enquiring minds through a range of enjoyable and interesting experiences;
- to foster a positive attitude to science and increase pupils' understanding of how science is used in the wider world;
- to help children develop the skills to make systematic enquiries;
- to provide opportunities for children to apply theoretical ideas to the solving of practical problems;
- to provide a range of relevant experiences allowing pupils to acquire knowledge, skills and understanding in the key areas of Science.
- to develop the accurate use of scientific vocabulary;
- to meet the needs of each child so that they will reach their full potential.

Implement:

We use a variety of teaching and learning styles, including visual, auditory and kinaesthetic approaches and strongly value learning that is practical and allows the children to take an active part in their investigations. Our teaching reflects our inclusive ethos, with high expectations for all children to achieve their full potential.

- A clear and comprehensive scheme of work in line with the National Curriculum and linked to NYCC schemes of work, where teaching and learning should show progression across all key stages within the strands of Science and plan for practical investigative opportunities within Science lessons.
- Children have access to key language and meanings in order to understand and readily apply to their written, mathematical and verbal communication of their skills.
- Children will use a range of resources to develop their knowledge and understanding that is integral to their learning and develop their understanding of working scientifically.
- Children will reflect on previous learning and cross curricular links will be made wherever possible
- Children will be able to build on prior knowledge and link ideas together, enabling them to question and apply their knowledge.
- Attainment will be assessed at the end of topics through related topic assessment tasks and quizzes.
- Where applicable links to Science will be made to develop cross-curricular links.

Class teachers work hard to ensure that their learning environment is stimulating and appropriately organised; the atmosphere is purposeful and all children feel safe. Class displays support and celebrate children's learning in Science

Science is monitored by the Science Curriculum Leader, as well as the Head Teacher, through a rigorous and robust timetable, through the triangulated process of lesson observations (which includes planning), pupil voice and book looks. Classes are monitored on a three yearly basis and targets/areas for development are agreed and help to set the focus for subsequent monitoring. Our monitoring also informs our Science Curriculum Plan, which in turn informs our School Improvement Plan and our long term vision for the subject.

Impact:

Our Science curriculum has been designed to set high standards; and we expect most of our children will achieve age related expectations in Science at the end of their cohort year. They will be able to question ideas and reflect on knowledge and work collaboratively and practically to investigate and experiment. They will also be able to explain the process they have taken and be able to reason scientifically. We aim for our pupils to retain knowledge that is pertinent to Science with a real life context and keep a sense of curiosity about the world we live in.

