

Tow Law Millennium Primary School

Science Policy



Intent

At Tow Law Millennium Primary School, it is our intention to provide high quality science education for all of our children.

Science teaches an understanding of natural phenomena. It aims to stimulate a child's curiosity in finding out why things happen in the way they do. It teaches methods of enquiry and investigation to stimulate creative thought. Children learn to ask scientific questions and begin to appreciate the way science will affect their future on a personal, national, and global level.

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Our Science Curriculum aims to enable children to:

- ask and answer scientific questions;
- plan and carry out scientific investigations, using equipment, including computers, correctly;
- know and understand the life processes of living things;
- know and understand the physical processes of materials, electricity, light, sound and natural forces;
- know about the nature of the solar system, including the earth;
- evaluate evidence and present their conclusions clearly and accurately.

Implementation

Our Science Long Term plan is in line with the National Curriculum, this is created by our Science Lead and then a Medium Term Plan is created by individual Class Teachers to allow them to plan and meet the needs of all children in their class. Our planning is structured, progressive and focuses on key vocabulary for each unit of work and follows a two year rolling programme to ensure that all areas of the National Curriculum are covered in our mixed age classes.

Science at Tow Law Millennium primary is:

- Taught weekly in KS1 and KS2 and the children focus on 6 topic areas across the academic year.
- Science in Early Years is taught and imbedded in a range of areas across the year and is outlined in our LTP. In addition, Reception children take part in weekly (weather dependent) forest school activities which have many science links.
- We build upon the learning and skill development of the previous years. As the children's knowledge and understanding increases, they become more proficient in selecting, using scientific equipment, collating and interpreting results. Through this they become increasingly confident in their growing ability to come to conclusions based on real evidence.
- Working Scientifically skills are embedded into lessons to ensure these skills are being developed throughout the children's school career and new vocabulary and challenging concepts are introduced through direct teaching. This is developed through the years, in-keeping with the topics.
- Teachers demonstrate how to use scientific equipment, and the various Working Scientifically skills in order to embed scientific understanding. Teachers find opportunities to develop children's understanding of their surroundings by accessing outdoor learning and workshops with experts.
- To enable teachers to be fully prepared for the teaching of science they know they can come and enquire about CPD opportunities and they also support each other with their teaching of various topics within our curriculum.

Impact

The successful approach at Tow Law Millennium Primary School results in a fun, engaging, high-quality science education, that provides children with the foundations and knowledge for understanding the world. Pupils enjoy

and are invested in their learning, we monitor the impact and progression of learning through our mid unit and end of unit assessments.

Our engagement with our local environment ensures that children learn through varied and first-hand experiences of the world around them. Lessons which involve learning outside the classroom are embedded throughout the science curriculum.

The subject Lead monitors learning, work and progression, they also attend termly network meetings to discuss and share updates and ideas with other schools within County Durham.

Monitoring takes place several times per year to ensure that long term planning is being followed to ensure the needs of the children are being met.

If you require this information summarised in another language or format please contact the school office on:



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Signed:

Date: Summer 2023

Policy to be reviewed: Summer 2025