

Science Policy

1 Aims and objectives

- 1.1 Science teaches an understanding of natural phenomena. It aims to stimulate a child's curiosity in finding out why things happen in the way that 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 in which science will affect the future on a personal, national and global level.
- 1.2 Our objectives in the teaching of science is to ensure that all pupils:
- develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics
 - develop understanding of the nature, processes and methods of science through different types of science enquiries that help them to answer scientific questions about the world around them
 - are equipped with the scientific knowledge required to understand the uses and implications of science, today and for the future.

2 Teaching and learning style

- 2.1 We use a variety of teaching and learning styles in science lessons. Our principal aim is to develop children's knowledge, skills, and understanding. Sometimes, we do this through whole-class teaching, while at other times, we engage the children in an enquiry-based research activity. We encourage the children to ask, as well as answer, scientific questions. They have the opportunity to use a variety of data, such as statistics, graphs, pictures and photographs. They use ICT in science lessons because it enhances their learning. They take part in role-play and discussions, and they present reports to the rest of the class. They engage in a wide variety of problem-solving activities. Wherever possible, we involve the pupils in real scientific activities, e.g. investigating a local environmental problem, or carrying out a practical experiment and analysing the results.
- 2.2 We recognise that in all classes, children have a wide range of scientific abilities, and we ensure that we provide suitable learning opportunities for all children by matching the challenge of the task to the ability of the child. We achieve this in a variety of ways:
- setting tasks which are open-ended and can have a variety of responses;
 - setting tasks of increasing difficulty (we do not expect all children to complete all tasks);
 - grouping children by ability in the room, and setting different tasks for each ability group;
 - providing resources of different complexity, matched to the ability of the child;
 - using classroom assistants to support the work of individual children or groups of children.

3 Science curriculum planning

- 3.1 Science is a core subject in the National Curriculum. We make use of the local environment in our fieldwork, although we choose a locality where the physical environment differs from that of our own.

- 3.2 The long-term plan maps the scientific topics studied in each term during the Key Stage.
- 3.3 Our medium term sets out the coverage of the national curriculum for science.
- 3.4 We have planned the topics in science so that they build on prior learning. We ensure that there are opportunities for children of all abilities to develop their skills and knowledge in each unit, and we also build progression into the science scheme of work, so that the children are increasingly challenged as they move up through the school.

4 The Foundation Stage

- 4.1 We teach science at the Foundation Stage as an integral part of the topic work covered during the year. We relate the scientific aspects of the children's work to the objectives set out in the Early Learning Goals (ELGs) which underpin the curriculum planning for children aged three to five. Science makes a significant contribution to developing a child's knowledge and understanding of the world. Our curriculum from Y1-6 is built on the learning in the foundation stage.

5 Assessment for learning

- 5.1 Science progress will be assessed at the end of each unit.

6 Monitoring and review

- 6.1 The coordination of the science curriculum is the responsibility of the subject leader, who also:
 - supports colleagues in their teaching, by keeping informed about current developments in science and providing a strategic lead and direction for this subject;
 - gives the headteacher an annual summary report in which s/he evaluates the strengths and weaknesses in science and indicates areas for further improvement;

- 7 This policy will be reviewed at least every 3 years.

Tatham Fells CE (VC) Primary School

Science Policy

Signed (Headteacher):Fiona Ip

Signed (On behalf of the Governing Body):Helen Wilkinson

Date: Autumn 2025

Review date: Autumn 2028