



‘We are a small school that makes a big difference’

**‘To provide excellence for all within a happy, safe, and
stimulating learning environment’**

Science Policy

| SNAPE WOOD PRIMARY AND NURSERY SCHOOL | |
|---------------------------------------|-------------------|
| Approved by: Full Governing Body | Date: Spring 2023 |
| Review Date: Spring 2023 | Spring 2024 |

Rationale:

Science education provides an opportunity for pupils to explore and investigate the world around them, to develop their critical thinking and problem-solving skills, and to understand the implications of science for their own lives, society, and the environment. The National Curriculum (2013) for science aims to develop scientific knowledge and conceptual understanding, as well as the skills to design and carry out scientific investigations, and to evaluate evidence and explanations.

Aims:

- To develop pupils' curiosity, interest, and enthusiasm for science, and to promote an appreciation of its role in their lives and in society.
- To develop pupils' scientific knowledge and conceptual understanding of a range of scientific disciplines, including biology, chemistry, physics, and earth sciences.
- To develop pupils' understanding of the processes and methods of science, including their ability to design and carry out scientific investigations, to collect, analyse and evaluate data, and to communicate scientific ideas and findings.

Curriculum Intent:

The science curriculum is designed to develop pupils' scientific knowledge, skills and understanding through a range of topics and scientific disciplines. The curriculum is structured to ensure that pupils develop a secure understanding of scientific concepts and principles, and that they are able to apply this understanding to solve problems and answer questions. The curriculum is designed to provide a balance between scientific knowledge and scientific enquiry, and to ensure that pupils have opportunities work scientifically by carrying out practical investigations and experiments.

Curriculum Implementation:

Our school delivers a comprehensive and engaging science curriculum through a combination of practical investigations, demonstrations, and classroom-based learning. Teachers use a range of teaching strategies and resources, including PLAN science resources, to promote pupils' understanding of scientific concepts and principles. These resources provide clear progression maps for scientific vocabulary and disciplinary content, ensuring that pupils can build on their knowledge and acquire the necessary content without deviating from their learning goals.

In our science lessons, pupils are encouraged to ask questions, make predictions, and test their ideas through practical investigations. Teachers use ongoing assessment to monitor pupils' progress and adapt their teaching to meet the needs of individual pupils. This

approach fosters a love of learning and a deep appreciation for the natural world, while enabling pupils to develop strong foundations for future scientific study.

| SNAPE WOOD PRIMARY AND NURSERY SCHOOL SCIENCE CURRICULUM OVERVIEW 2022-2023 | | | | | | |
|---|--------------------|--------------------------|----------------------------------|-----------|----------------------------------|-----------|
| Year 1 | | | | | | |
| Term | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
| Science | Everyday materials | Animals including humans | Living things and their habitats | | Animals including humans | Plants |
| Year 2 | | | | | | |
| Science | Everyday materials | Animals including humans | Living things and their habitats | | Animals including humans | Plants |
| Year 3 | | | | | | |
| Science | Rocks and Soils | Forces | Animals including Humans | | Light | Plants |
| Year 4 | | | | | | |
| Science | States of Matter | Sound | Animals including Humans | | Light | Plants |
| Year 5 | | | | | | |
| Science | Earth and space | | Animals including humans | Materials | Living things and their habitats | Forces |
| Year 6 | | | | | | |
| Science | Electricity | Light | Animals including Humans | | Living things and their habitats | Evolution |

Curriculum Impact:

The success of the science curriculum is measured through formative and summative assessment, including teacher assessment, pupil self-assessment, and end of unit quizzes. Teachers use assessment to identify pupils' strengths and weaknesses and to plan future learning. Pupils are encouraged to reflect on their learning and to set targets for improvement. The science curriculum aims to ensure that pupils make progress in their scientific knowledge, skills and understanding, and that they develop a positive attitude towards science.

Monitoring:

The science curriculum intent, implementation and impact are monitored through a range of strategies, including lesson observations, work scrutiny and analysis of outcomes. Senior leaders and subject leaders work together to monitor the quality of teaching and learning, and to identify areas for improvement. Regular feedback is provided to teachers, and training and support is provided where necessary to ensure that the science curriculum meets the needs of all pupils.