



SCIENCE AND OUTDOOR LEARNING POLICY

This policy to be read in conjunction with Assessment Policy, Curriculum Policies, Equal Opportunities Policy, Health & Safety Policy, Teaching and Learning Policy, Racial Equality Policy, SEN Policy

MONITORING	DATE OF POLICY	DATE OF REVIEW
SUBJECT LEADER	March 2026	March 2027
SLT	TEACHING & LEARNING COMMITTEE	

RATIONALE (What is science?)

Science is a body of knowledge built up through experimental testing of ideas. Science is also methodology, a practical way of finding reliable answers to questions we may ask about the world around us. We are aiming to approach our scientific learning by incorporating elements of metacognition to all the children to engage with critical thinking and understanding what skills they are using and how the right skills help them to interpret phenomena.

Aims and Objectives:

- to provide appropriate and stimulating scientific experiences which encourage pupils to make sense of the world around them
- to develop a positive attitude to scientific enquiry and an awareness of the influence of science in everyday life
- to deliver activities that meet the requirements of the National Curriculum in a way that is appropriate to the needs and interests of all pupils and which challenge them to fulfill their potential
- to develop pupils' ability to apply their scientific knowledge and skills to solve problems in a wide variety of contexts
- to encourage pupils to develop a caring attitude to the environment and living things
- to develop pupils' understanding of safe ways of working and to take increasing responsibility for managing their own investigations safely
- to provide opportunities for pupils to learn through observation, prediction and investigation, and to share their findings
- to enable pupils to work both collaboratively and independently on scientific tasks
- to use scientific contexts to develop and consolidate cross-curricular skills of literacy and numeracy

TEACHING AND LEARNING

Within the Early Years Foundation Stage (EYFS), the curriculum is guided by using the relevant scientific sections of Knowledge and Understanding of the World. There is a strong emphasis on developing basic enquiry skills and high quality observations as set out in the early learning curriculum.

From Years 1 to 6 we currently use the Hartsbourne Scheme of work that has been incorporated into the School Curriculum Map. This highlights all areas of Science covered throughout the school each year. This therefore ensures that all pupils receive their maximum entitlement to a full education in relation to Science. Schemes of Work are reviewed and monitored in accordance with the School Improvement Plan. The curriculum map also highlights opportunities for cross curricular work. This has added to and amended to incorporate our focus on scientific enquiry and metacognition.

The importance of Scientific Enquiry is stressed throughout the school. Wherever possible, the remaining Science curriculum is taught using an experimental and investigative approach.

Children work in a variety of ways, many cross-curricular. For example:

- exploratory play to gain experience of a situation or article and to develop their own ideas
- experimentation to try out ideas and find what happens
- investigation to test ideas or hypotheses in an increasingly systematic way
- focused observation to develop the ability to notice detail and changes that take place over time
- focused practical tasks to promote understanding of a concept or skill
- sorting and classifying to group things by observable characteristics
- discussion and debate of ideas and conclusions to consolidate understanding and develop the ability to explain clearly
- presenting the results of their work in appropriate and varied ways
- gaining respect for evidence and appreciating the views of others
- working collaboratively and independently
- using secondary sources to widen experiences, enhance understanding and provide evidence, particularly to provide examples and illustrations from wider contexts than those possible in the classroom

These allow work to be differentiated by task and outcome for children working at all levels. Children with relevant PPMs are given appropriate support to access the curriculum and allow them to carry out tasks at their own level.

The children, whilst being made aware of the purpose of recording and the intended audience of their work, will experience and be taught a variety of styles of presenting their findings.

Key vocabulary, pertinent to each topic, is displayed and pupils are encouraged to use the technical vocabulary in all levels of communication.

ROLES AND RESPONSIBILITIES

Responsibilities of the Science Subject Leader are detailed in the Subject Leaders' Policy

ASSESSMENT

Children are assessed in line with our assessment policy. Children may be grouped for their work, and assessment criteria for these groups determine the method of recording.

Each area of the science curriculum has specific criteria that the children must know or be able to do by the end of their units. These are outlined in our curriculum. The curriculum breaks science down into two key areas, knowledge and working scientifically. Teachers will assess children formatively through their work achieved in lessons and summatively at the end of a unit after demonstrating their understanding.

In some instances, teachers will undertake a formal assessment to assess the children's science knowledge and skills across a key stage. This would normally be in Year 6 or Year 2.

(Refer to Assessment Policy).

RESOURCES

The Science resources are kept in the year 3-4 corridor. Resources are organized alphabetically according to general description eg Electricity – bulbs, buzzers, motors. If the boxes need replenishing or the individual teacher requires further resources they should inform the Science subject leader of their requirements.

There is also a selection of useful books and assessment resources, some of which are listed in the Appendix.

Health and safety

In science, teachers use the CLEAPSS risk assessments to ensure children are safe during all lessons and when using specialised equipment. Additionally, teachers will model how to use equipment safely and have clear precise instructions.

Overview of science topics			
Year 1	Seasonal Changes (4 weeks) Animals Including Humans (5 weeks) Everyday Materials (4 weeks)	Animals including humans Block 2 (5 weeks) Plants (6 weeks)	Seasonal Changes (4 weeks) Plants (3 weeks) Everyday Materials (4 weeks)
Year 2	Animals including humans Uses of Everyday Materials	Living things and Their Habitats Plants	Plants (Block 2) Uses of Everyday Materials (Block 2)
Year 3	Animals including humans Forces and Magnets	Rocks Light	Plants
Year 4	Digestive System Different states of matter	Sound Electricity	Living things and their habitats
Year 5	Properties and changes of materials	Forces Earth and Space	Animals and Habitats Humans body changes(puberty)
Year 6	Classification Light	Electricity Animals including humans (Circulatory system)	Evolution, adaption and inheritance

Useful Resources

CLEAPSS