

MANOR ROAD PRIMARY SCHOOL



SCIENCE POLICY

September 2025





Manor Road Primary School

Science Policy

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Manor Road Primary School

Science Policy

Introduction

This document should be read in conjunction with the National Curriculum (2014) and the Early Years Foundation Stage Curriculum, which set out in detail what pupils in different classes/ year groups will be taught.

In writing this document we aim to describe the purposes, nature and management of Science taught attained at Manor Road Primary School.

This policy reflects the school values and philosophy in relation to the teaching and learning of Science. It sets out a framework within which teaching and non-teaching staff can operate and gives guidance on planning, teaching and assessment.

Aims and Objectives:

We live in an increasingly scientific and technological age where children need to acquire the knowledge, skills and attitudes to prepare them for life in the 21st century. We, at Manor Road Primary School believe that Science enables children to develop an interest and curiosity about the world in which they live, and fosters a respect for the environment. Through the framework of the National Curriculum, Science aims to:

- Encompass the acquisition of knowledge, concepts, skills and positive attitudes.
- Equip children to use themselves as starting points for learning about Science, and to build on their enthusiasm and natural sense of wonder about the world.
- Develop through practical work the skills of observation, prediction, investigation, interpretation, communication, questioning and hypothesizing, and increased use of precise measurement skills and IT.
- Encourage and enable pupils to offer their own suggestions, and to be creative in their approach to Science, and to gain enjoyment from their scientific work.
- Enable children to develop their skills of co-operation through working with others, and to encourage where possible, ways for children to explore Science in forms which are relevant and meaningful to them.
- Teach scientific enquiry through contexts taken from the National Curriculum for Science.
- Encourage children to collect relevant evidence and to question outcome and to persevere.
- Encourage children to treat the living and non-living environment with respect and sensitivity.
- Stress the need for personal and group safety by the correct usage and storage of resources.

- To enable children to appreciate that we do not always know the answers and results when carrying out scientific enquiry.

Curriculum and School Organisation

In order to achieve these aims, the content of the Science curriculum is organised into a scheme of work with opportunities for integration with other subjects where appropriate, particularly at Foundation Stage and Key Stage 1, and for single subject study which is the norm at Key Stage 2.

At Foundation Stage, Science learning is largely developed within the area of Knowledge and Understanding of the World.

At Key Stage 1 and 2, Science is based on the 2014 National Curriculum and delivered through lessons tailored by teachers to match each year group's National Curriculum objectives.

Within the curriculum, learning activities are sequenced to ensure progression and taught through the provision for pupils of real, first hand experiences and by direct teaching. Science is essentially a practical subject and staff members are aware that the aims and objectives of Science are met through practical activities.

Educational visits and visitors are a useful adjunct to experiences within the classroom, providing input that is not available in school.

Internet, computer programmes, County Library Project Loans, television programmes and film clips may all be used as appropriate to enhance curriculum delivery.

Staff may set homework to support topic work being undertaken in school; this would usually be in the form of seeking background information (see Homework Policy).

Computing Statutory requirements for Science:

Key Stage 1

Scientific Enquiry- Investigative skills

2g: **communicate what happened in a variety of ways**, *including using IT for example in speech and writing, by drawings, tables, block graphs and pictograms.*

Key Stage 2

Scientific Enquiry- Investigative skills

2f: **make systematic observations and measurements**, *including the use of IT for data logging.*

2h: **use a wide range of methods, including diagrams, drawings, tables, bar charts, line graphs and IT, to communicate data in an appropriate and systematic manner.**

Time Allocation

Science lessons are usually carried out weekly for approximately 2 hours, although these may be split into separate chunks of time, to ensure that the National Curriculum

programmes of study are covered with appropriate progression across the classes and key stages.

Planning

The school recognises that planning is necessary to achieve clear, achievable goals. Planning ensures that work is matched to pupils' abilities and experiences. Planning ensures progression, personalization where possible, continuity and subject coverage throughout the school.

School recognises the potential and importance for the development of cross curricular skills of reading, speaking & listening, English, Maths, Geography, DT and Computing through Science; these will be considered at the planning stage.

Planning provides criteria for evaluation of teaching and learning and is linked to assessment procedures (see Assessment Policy).

Curriculum planning is undertaken through medium-term planning which is based on termly or half-termly units and through weekly planning notes developed from detailed medium-term plans. The school uses The 2014 National Curriculum objectives as a basis for planning, supplemented by the PLAN primary science resources.

Copies of plans may be made available to the Head teacher upon request.

In the Foundation Stage Science concepts are taught through knowledge and understanding of the world.

Each year group is expected to carry out comparative, and fair- test investigations, giving the children ample opportunity for investigation and exploration. Hands on, practical Science is essential to enable children to be free to investigate, to experiment, and to ask and answer questions.

Classroom Organisation

The class teacher is responsible for the Science teaching and groupings in each class. Within classes, children are taught through a combination of groupings as appropriate according to their age, ability and the learning task. Scaffolding may be given to support children with additional needs as required. In the foundation stage suitable opportunity is given for outdoor and indoor exploration of real-life, hands-on Science.

Inclusion

At our school we teach Science to all children, whatever their ability and individual needs. Science implements the school curriculum policy of providing a broad and balanced education to all children. Through our Science teaching we provide learning opportunities that enable all pupils to make good progress. We strive hard to meet the needs of those pupils with special educational needs, those with disabilities, those with special gifts and talents, and those learning English as an additional language, and we take all reasonable steps to achieve this.

We enable pupils to have access to the full range of activities involved in learning Science. Where children are to participate in activities outside the classroom, for example in a museum or on a factory trip, we carry out a risk assessment prior to the activity, to

ensure that the activity is safe and appropriate for all pupils.

Equal Opportunities

It is the responsibility of all teachers to ensure that all pupils, irrespective of gender, ability, including gifted pupils, ethnicity and social circumstance, have access to the curriculum and make the greatest progress possible.

Assessment

Assessment is used to inform future planning and to provide information about individuals throughout their time in this school.

Assessment for learning is continuous throughout the planning, teaching and learning cycle. However children are assessed both formally and informally termly in KS1 and KS2 using a variety of methods:-

- Observing children at work, individually, in pairs, in a group, and in classes.
- Questioning, talking and listening to children
- Considering work/materials / investigations produced by children together with discussion about this with them.
- Summative assessment quizzes at the beginning and end of units of learning.

Children's progress is monitored and tracked regularly throughout their time at Manor Road Primary School, to ensure children are achieving their full potential.

Record Keeping and Reporting

Records of pupils' achievements are kept to:

- plan pupils' future learning
- report progress to parents
- maintain a written record of pupils' learning
- provide a curricular record for each pupil
- fulfil legal requirements

Information on a child's progress in Science will be communicated to parents in a report at the end of each academic year.

Subject Leader Role

The teacher responsible for co-ordinating Science is Susanne Heald and her role is described in her job description. This may include the following:

- plan work with teachers
- review and contribute to teacher planning
- prepare policy and scheme of work
- develop policy and scheme of work with staff
- liaise with transfer school staff
- prepare a subject development plan
- leading staff meetings
- plan and lead inset activities
- provide consultancy, advice, skills

- in-class teaching support
- specifying and ordering resources in consultation with staff
- monitoring and maintaining condition and availability of resources
- monitoring teaching and learning in Science

Health and Safety:

All staff should make themselves conversant with the following:

With regard to Science work in school, all teachers will be conversant with the up-to-date "Be Safe" safety booklet located in the staff room.

Where appropriate, reminders will be given to children about potential hazards and care of the equipment they are using.

Any trips should have been planned with due regard to the school policy on taking children on outings. LEA guidance may need to be sought on trips involving farms etc.

Further health and safety advice and information can be accessed through the CLEAPPS website as required.

Resources:

Science resources are organised and stored in a central location by the Science Subject Leader.

The school grounds provide a rich resource that is easily accessible for all children.

There is also nearby Cuerden Valley Park, which is accessible and provides an even wider variety of environments, as well as expertise.

Awards

School currently holds the PSQM Gilt award



POLICY REVIEW DETAILS		
Policy written by	Susanne Heald	
Policy reviewed	September 2025	Updated
Review schedule	Every two years	