



Science Policy

Approved by the Governing Body: Jan 2018

Review Date: Jan 2020

This is a revised policy document resulting from a review of the previous policy. It is a statement of the aims, principles and strategies for the learning and teaching of Science at Twyford C of E School.

Introduction

Science in the National Curriculum has been divided into four areas of study as follows: 'Experimental and Investigative Science', 'Life Processes and Living Things'; 'Materials and their Properties' and 'Physical Processes'. Contexts derived from 'Life Processes and Living Things'; 'Materials and their Properties' and 'Physical Processes' should be used to teach pupils about experimental and investigative methods.

Aims

Through teaching we aim to:

- stimulate and excite pupils' curiosity about changes and events in the world.
- enable children to develop their knowledge and understanding of the world they live in, through investigation of that world.
- ensure progressive development of scientific concepts, knowledge, skills and attitudes.
- enable the children to work scientifically in a range of appropriate contexts, using a wide variety of materials and equipment
- promote positive attitudes towards, and enthusiasm for, science work in our school.
- to help pupils to learn to question and discuss scientific issues that may affect their own lives.

Objectives

We plan our teaching of science with the following objectives:

- to provide a balanced range of scientific activities as an integral part of the school curriculum
- develop their hypothesising, observation and recording skills through scientific experiments and investigations;
- use both first-hand experience and secondary sources (including ICT) to obtain and present information;
- to relate their work to scientific processes in the wider world.
- to consider the fact of life, growth, decay and death and how different organisms are dependent upon each other.

Teaching and Learning

The principal aim is to develop pupil's knowledge, understanding and skills. We achieve this by providing the children with a broad and balanced curriculum. Our plans show the breadth of study as well as how 'Working Scientifically' is embedded within each unit of work. Plans also include the scientific vocabulary to be taught with each unit of work to enable children to articulate scientific concepts clearly and precisely. The teaching of science at Twyford C of E School is approached through a range of learning activities and strategies employed which include:

- Investigations



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- Observations
- Demonstrations
- Problem Solving
- Discussion
- Application of skills and knowledge
- Decision making
- Comparison
- Questioning of why? How? What happens if....?

Information Communication Technology

We see Computing as an important tool in Science. Children research, collect and interrogate data in a variety of ways.

Records and Assessment

Assessment of children's development is made through a combination of end of unit assessments, ongoing teacher assessment, formal tasks and year tests where appropriate. A record is kept of children's achievements in Science including 'Working Scientifically' through teacher's own notes and our school record system. Progress and attainment in Science are reported to parents through end of year reports.

Organisation and Planning

The science curriculum at Twyford C of E School is delivered through a two year cycle for KS1, LKS2 and UKS2 (see appendix 1). Children experience science within a topic based framework, where science is either the main focus, or a discrete unit of work, taught alongside the main topic. Our Whole School Two Year Curriculum Plan sets out when these topics will be covered and takes account of our mixed age classes, where possible, the order of study has been designed to link in with other cross curricular opportunities, e.g. design technology and history.

Health and Safety

Teachers accept responsibility to plan safe activities for science.

A copy of Twyford C of E School's Health and Safety Policy is kept in the school office.

Monitoring

The Science curriculum is monitored by the science co-ordinator through staff meetings, observation of teaching, monitoring of medium term plans and children's work and analysis of data.



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Appendix 1: Rolling Programme

Year 1:

HALF TERM	KS1	LKS2	UKS2
1	Habitats Animals including humans		
2	Everyday materials	Plants	Forces
3	Uses of everyday materials		Animals and Humans Evolution and Inheritance
4		Sound Light and Shadows	Materials
5			
6	Habitats	Electricity and magnets	

Year 2:

HALF TERM	KS1	LKS2	UKS2
1	Animals including humans		
2	Seasonal Change	Rocks and states of matter Water cycle	
3			
4	Local living things and their habitats	Living things and their habitats	Earth and space
5	Uses of everyday materials		Light and electricity
6	Plants	Animals including humans	Living things and their habitats