

Highfield Primary School

Policy for Science

This document is a statement of the aims, principles and strategies for the teaching and learning of science at Highfield Primary School.

This policy will be reviewed annually.

AIMS OF SCIENCE POLICY

Our Science Policy follows The National Curriculum 2014 for Science Guidelines and aims 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
- **work scientifically**

PURPOSE OF STUDY-WHY TEACH SCIENCE?

- To ensure that teachers meet their statutory obligations with regards to the teaching of science.
- To raise science standards by promoting a high standard of excellence and consistency of approach amongst all staff.
- To ensure procedures for planning and assessment enable a broad and balanced curriculum that has continuity and progression and addresses equal opportunities.
- To foster a positive attitude to science as an interesting and exciting part of the curriculum.
- To foster in children the confidence to apply their knowledge, skills and ideas in real life contexts both within and outside the classroom and become aware of the uses of science in the wider world.
- To provide children with scientific experiences that develop their understanding of themselves and the world in which they live.
- To develop the enquiry skills of predicting, asking questions, making inferences, concluding and evaluating based on evidence and understanding and use these skills in investigative work.
- To introduce and extend children's knowledge and understanding and know that scientific ideas change and are modified.
- To develop the ability of pupils to communicate their ideas using appropriate scientific vocabulary.
- To encourage safe practice in all areas of science.
- To help provide pupils with the competence and confidence to deal with a life in an increasingly scientifically complex society.

Teaching and Learning

Science is taught from Reception to Y6 and supported and enhanced through other curriculum areas. In Foundation stage, science forms the basis of one of the seven areas of learning. KS1 and KS2 use the Primary Framework as a basis for planning within the subject.

Collins Snap Science will form the basis of the school's scheme of work.

Key features of science lessons include:

- Clear learning intentions and success criteria.
- A balance between classroom science and fieldwork (outdoor learning).
- An opportunity to observe, investigate and where appropriate do simple tests, collect data and look for patterns.
- Clear differentiation for more and less able learners.
- Appropriate pace of learning and high expectations.
- Encouragement to share responsibility for their own learning.
- Awareness of the importance of scientific work to everyday life and make relevant links.

- Every effort is made to rectify misconceptions.
- Good use is made of a wide range of resources.
- Questions are specific, scientific and linked to success criteria. Questions are differentiated for different abilities and opportunities for further learning are highlighted.
- Learning points are seized and acted upon throughout the lesson and learning is shared and collated, either verbally or with the whole class.

Assessment

- It is necessary to be constantly evaluating what individuals and groups are learning and what they bring to the learning situation. Through evaluation, any difficulties can be identified and specific help to remedy the problem can be given.
- Assessment is achieved through; discussion with pupils, observation of pupils, marking work and levelling using the APP grids.

Inclusion

- Through our science planning, all ages and abilities will be included across the science curriculum.

Safety

- Safe practice must be promoted at all times. Teachers must also take into account all relevant health and safety issues. Please refer to schools' health and safety policy and specific risk assessments. Particular attention must be given to avoiding the use of anything that aggravates individual pupils' allergies.

This policy was originally written by the Science Learning Team on the 4th of June 2014