

## Science Policy

### Overview

Developing and increasing pupils' understanding and enjoyment of science is core to our curriculum. This policy will put into place the provisions for science which are set out in the National Curriculum 2014. We will ensure that all pupils develop scientific knowledge, skills and understanding and develop an understanding of the nature, processes and methods of Science. They will experience different types of research and experimentation which will help them answer scientific questions about the world around them and this policy will ensure that high standards are achieved and that pupils make, at least, good progress at every stage.

### Objectives

- To promote and develop children's enjoyment and enthusiasm for science through exciting, practical, first-hand learning and opportunities to experiment explore and investigate.
- To ensure that the statutory requirements of the National Curriculum (2014) for science are well taught and that where appropriate their scientific knowledge, skills and understanding are applied across all subjects of the curriculum and that relevant cross-curricular links are made.
- To ensure that the school's schemes of work and guidelines for science are taught, thoroughly, systematically and progressively to all pupils.
- To help pupils to become scientists by developing their problem solving and reasoning skills so that they can apply their scientific thinking across the curriculum and solve challenging problems, be confident in their understanding and application of their basic skills in science and that they build upon prior learning at every stage.
- To develop pupils' confidence and skill in working scientifically and develop lines of enquiry as they explore the areas of science and address increasingly complex problems.
- To ensure that all children, particularly those with special educational needs, disability or EAL; those who are 'stuck' or those finding it hard, are well supported.
- To teach pupils to work with proper regard for their own safety and that of others, using safety equipment where necessary.

### Strategies

- An appropriate range of teaching and learning strategies will be used in all science lessons to capture pupils' interest and to promote effective learning and progress.
- Teachers will use the schemes of work and guidelines, supported by an appropriate range of teaching and learning resources, to develop the knowledge, skills and understanding of every child, ensuring that all pupils, including those with SEND, achieve high standards for their ability and make appropriate progress.
- Children will be encouraged to; ask questions, solve problems, discover new information, apply and consolidate their knowledge skills and understanding through first-hand experiences, investigations and practical work.
- Teachers will make use of the immediate school and wider environments to help pupils apply their scientific knowledge, skills and understanding to see the relevance of science to their own lives. They will set challenging work, tasks and problems to increase children's knowledge, skills and understanding, to extend their thinking and build their self-confidence.
- Teachers will assess children's work in science through formative and summative judgements by; asking questions, observing learners during lessons, observing pupils solving practical problems and listening to pupils' discussions. Teachers will ensure that evidence is recorded to demonstrate that children are working at age related expectations. Work will be marked in accordance with the school marking policy and pupils will be given appropriate, clear feedback which tells them how well they have done and what they need to do next time to improve. Teachers will provide time for pupils to respond to this feedback.
- The science leader will support the teaching and learning of science by; providing strategic leadership and direction, monitoring progress and standards across the school, reviewing and revising the science policy, monitoring and supporting teachers in the teaching of science, keeping staff up to date on new developments in science, monitoring the effectiveness of the planning and development of science, auditing, monitoring the effective and appropriate use of resources and obtaining new resources.

### Outcomes

This policy will ensure that all pupils become confident scientists. Effective teaching will ensure that they can solve problems by applying their knowledge, understanding and skills in science with increasing sophistication. This policy should be read in conjunction with other key policies including; assessment, teaching and learning, equal opportunities and inclusion policies.

Adopted by the Governing Body .....Date.....July 2017.....Review Date.....July 2019.....