

## SCIENCE POLICY

**Rationale:**

To develop pupils' curiosity, enjoyment, skills and a growing understanding of Science knowledge, through an approach in which pupils raise questions and investigate the world in which they live.

**Aims**

- To deliver the Science Programmes of Study of the National Curriculum.
- To promote learning through a wide variety of teaching and learning styles.
- To develop investigational skills through relevant practical tasks.
- To promote positive attitudes to the learning of science.
- To promote the understanding of what it means to work scientifically and how to approach investigations in this manner.
- To develop the skills of the 5 types of scientific enquiry (observing over time; pattern seeking; identifying, classifying and grouping; comparative and fair testing and researching using secondary sources) by ensuring that each type of enquiry is covered at least once per term.
- To develop the ability to ask an appropriate range of scientific questions including those suitable for independent scientific investigations.
- To promote communication in order to enable children to express their ideas using appropriate scientific vocabulary.

**Guidelines**

- Long term planning for science will be based on the objectives taken from the National Curriculum. The topics and working scientifically objectives within the curriculum will be covered on a 2 year cycle within Key Stage 1 and Key Stage 2. They are incorporated within the schools cross-curricular themes.
- Medium term planning will take place every half term, and will be constructed using the appropriate objectives that are linked to the terms theme.
- Differentiation of activities will be made in the weekly/daily planning as appropriate to the pupils being taught based upon their prior knowledge, understanding and skills.
- The strong practical mathematical links with investigations will be seen as an opportunity for teaching and should be explored at the planning stage.
- The assessment of knowledge and skills will be planned for as part of the teaching process. (See assessment policy). Summative assessment will take place at the end of each unit, using the school's assessment tool
- The North Yorkshire guidelines for safety - ASE 'Be Safe' 3<sup>rd</sup> Edition are a minimum requirement of health and safety standards.
- Pupils will normally be organised into small groups and encouraged to work co-operatively for science work. The group size will be determined by the age, task and ability of the pupils.
- A wide range of teaching and learning styles will be used, including the 5 types of practical work, with an emphasis on investigative, rather than illustrative practical activities.

- Pupils will be taught to use a wide range of appropriate recording methods, which will include the use of Information Communication Technology at both Key Stage 1 and Key Stage 2.
- Information Communication Technology will also be used for research and exploration of concepts through interactive activities to complement investigations within class.
- Displays of science work will be used to emphasise and raise the importance of science in the school.
- Trips to promote science will be organised as appropriate
- Equal opportunities in science will be given to all pupils. (See equal opportunities policy).
- Science resources are kept in the school's resource room. The co-ordinator monitors these resources and replenishes as necessary. Teachers to discuss the need for new equipment with the science co-ordinator before the start of a new theme/topic.
- Selections of books relevant for each topic can be found in the school library. These will be monitored and updated as necessary.
- The role of the Science Subject Leader is to:
  - monitor the effectiveness of science in school.
  - support teachers in their planning and strategies for classroom management.
  - disseminate new information.
  - provide or organise staff training.
  - be responsible for providing appropriate science resources
  - create a new school development plan and assess it on an annual basis

### **Date for next review**

March 2019 (Annually)

<p><u>Policy Adopted by Subject Coordinator</u></p> <p>Name: Mrs E Bustard</p>	<p><u>SIGNATURE</u></p>	<p><u>DATE</u></p>
<p><u>Policy Adopted by Headteacher</u></p> <p>Name: Mrs J Elcock</p>	<p><u>SIGNATURE</u></p>	<p><u>DATE</u></p>