

# Brighter Futures Academy Trust

## Science Policy



Name of Policy Writer/Amendments	Date Written/Amended	Next Review Date
R Denham	April, 2018	April, 2020

## **A Policy Statement for the learning and teaching of SCIENCE**

### **Rationale**

Science stimulates and excites pupils' curiosity about events within the world. It is an area where practical experiences develop critical and creative thought. In Science we aim to engage this excitement and develop this curiosity into knowledge by children exploring their understanding and learning through enquiry.

Through the study of Science, children will find answers. They will practice the skills, learn new knowledge and develop an understanding of life processes, physical processes and materials and their properties. This will allow the children to appreciate the impact Science has had on their society and make predictions on what influence it may have in the future. Science should be taught through the School's thematic approach linking scientific discovery with the topic area being taught.

### **Purposes**

- To meet the requirements of the National Curriculum.
- To stimulate an interest in the world around us.
- To 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.
- To develop an understanding of the contribution Science makes to a variety of cultures and societies.
- To develop an awareness of respect for the environment.
- To develop skills in predicting, asking, inferring, concluding and evaluating based on evidence and understanding and use these skills within investigative work to develop knowledge.
- To develop and integrate basic skills in literacy and numeracy in order to assist the process of raising standards.
- To 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.

### **Planning and Teaching**

- Schools planning model should be followed.
- Learning objectives should be taken from the scheme of work, which links to the National Curriculum.
- There should be an emphasis on practical, investigative and problem solving activities and at least two experiments should be taught each half term. The schools scientific experiment templates should be used for both KS1 & KS2.
- Statistics requirements for each year group should be taught through Science, for example the collection and analysis of data, and should be taught each half term linked to the topic under study.
- Key vocabulary should be seen on planning and introduced in all lessons.
- Emphasis on teaching to a range of learning styles for maximum engagement.

### **Assessment**

- This should be appropriate to the age of the children, the skills and the content being studied.
- Class teachers will be expected to give two separate assessments for science, one for SC1 Enquiry Skills and one for SC 2, 3,4 Knowledge and Understanding. Those children who are unable to provide written evidence should be given the opportunity to undergo an alternative assessment of their scientific knowledge and understanding.
- Class teachers should always complete a baseline assessment before teaching any unit do the teaching and learning is appropriate to what the children already know.
- Success criteria should be planned and assessed against.
- Class teachers should use a variety of strategies for formative and summative assessment.
- Samples of work should be marked/annotated to show to what extent the child is working at and what skill they are demonstrating.
- Children should be given the opportunity to evaluate their own and others work, using the marking scheme.

## **Monitoring**

Subject Leader will:

- Monitor long term planning for coverage and progression of content and skills.
- Collect and analyse assessment data if being used.
- Collect data grids for whole class and analyse.
- Monitor books
- Participate in learning environment walks
- Use questionnaires with children to assess learning at the end of the term.
- Monitor use of display boards to demonstrate standards and progression throughout school.
- Observe lessons.

## **Health and Safety**

Safe practice will be promoted and modelled at all times. Children will be made aware of what the potential hazards are and what can be done to protect themselves and others.