



**Barkisland CE (VA) Primary School**  
**WE BELIEVE, WE NURTURE, WE SUCCEED!**

# **Barkisland CE (VA) Primary School**

## **Science Policy**

### **Overview**

Science is taught to all children in both Key Stage 1 and Key Stage 2 for two sessions per week (generally in an afternoon). The topics taught are determined by the Programme of Study developed in 2014 and skills within each topic are developed throughout Key Stage 1 and 2. The theme of Working Scientifically underpins all the topics in the Programme of Study and these skills are developed throughout Key Stage 1, Lower Key Stage 2 and Upper Key Stage 2.

### **Objectives**

1. To promote and develop children's enjoyment and enthusiasm for science through exciting, practical, first-hand learning and opportunities to experiment, explore and investigate.
2. To ensure that the statutory requirements of the National Curriculum (2014) for science are taught well and that where appropriate their scientific knowledge skills and understanding are applied across all subjects of the curriculum.
3. To ensure that the school's schemes of work and guidelines for science are taught, thoroughly, systematically and progressively to all pupils by all staff.
4. 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.
5. To ensure that from the EYFS onwards, pupils are confident in their understanding and application of their basic skills in science and that they build upon their prior learning at every stage.
6. To encourage children to use their increasing knowledge, skills and understanding of science to investigate, ask questions and solve challenging problems.
7. To develop pupils' confidence and skill in scientific methods as they explore the areas of science and address increasingly complex problems.

8. To bring science to life and make it real so that children understand the importance of science in the world and in their everyday day lives.
9. To ensure that all children particularly those with special educational needs or disability; those who are 'stuck' or those finding it hard, are well supported or given extra challenge where needed.
10. To teach pupils to work with proper regard for their own safety and that of others, using safety equipment where necessary.

### **Curriculum**

In all year groups, children will be given the opportunity to discuss, question, debate, record, make models, investigate, test and record, work collaboratively in whole class, groups, pairs and individual situations.

Through Science, children will be given the opportunity to acquire a way of thinking and working that will serve to form a basis for understanding the world within which we all live.

Science figures in most aspects of modern life and an understanding of its nature and in particular scientific knowledge is important to enable all pupils to develop into their adult lives.

The scientific methodology of predicting, testing, observing, recording and drawing conclusions based on the evidence available will provide models in which children will learn to solve problems and understand the world around them and hopefully help to satisfy their own curiosity.

Our aim is to ensure that the Science we teach our children enables them to develop scientific skills, knowledge understanding and a way of thinking.

The teaching of Science may be set within a context/topic, wherever possible, as well as being subject specific to give meaning and purpose so that all children appreciate the significance of their work and its relevance to everyday life.

### **Accessibility**

Science will be made accessible to all children regardless of gender, race, disability, culture or academic ability.

Children working collaboratively and individually through a range of activities will have access to a range of equipment including Computing.

Science will feature across the curriculum in Maths, Geography, Computing, Design Technology and links will be made in relation to its history and development where appropriate.

### **Safety**

- Safety is of paramount importance in the teaching of Science. Teachers, support staff, students and volunteers should be aware of and refer to the Association for Science Education's handbook '**Be Safe**' (located in the staffroom), when planning and delivering scientific investigations and experiments.
- Staff must ensure that safe practice in Science is consistent throughout the school so that children will know the correct and safe procedures to use when undertaking scientific investigations.
- All equipment must be carefully stored, managed and labelled.

### **Assessment of Pupils**

From Y1 to Y6, Science will be assessed at the end of each term, using teacher assessment. Foundation Stage pupils are assessed according to the Early Years Foundation Stage Framework.

### **Outcomes**

This policy will ensure that all pupils at Barkisland 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, special needs and equal opportunities, deployment of support staff.

*Subject Co-Ordinator: Tracey Butler  
Reviewed: March 2016*