

## **Science**

### **INTENT**

Science is a systematic investigation of the physical, chemical and biological aspects of the world which relies on first hand experiences and on other sources of information. The scientific process and pupils' problem-solving activities will be used to deepen their understanding of the concepts involved. The main aspects of science to be studied will be determined by the programmes of study of the National Curriculum 2014.

Through science, children at Holy Cross Catholic Primary Academy will continue to deepen their respect, care and appreciation for the natural world and all its phenomena.

Our intent is to:

- Deliver a Science curriculum which develops learning and results in the acquisition of knowledge and skills, built on previous learning
- Create a Science curriculum which enables children to become enquiry based learners
- Teach Science in a thematic and enjoyable way, alongside other areas of the curriculum
- Encourage children to predict, investigate and analyse
- Encourage children to showcase their scientific, investigative and enquiry skills.

### **IMPLEMENTATION**

In order to implement our intent, we have:

- Opportunities for whole school and class enrichment
- Ensured that staff are equipped with the necessary professional development to deliver our curriculum
- Planned opportunities for home learning tasks to consolidate and extend knowledge and skills
- A clear and comprehensive Science curriculum in line with the National Curriculum
- A curriculum that is progressive and develops enquiry skills and knowledge
- Planned opportunities to learn Science within a wider context alongside other curriculum subjects
- Opportunities to develop the progression of enquiry skills, predicting, investigating and analysing
  
- Extra-curricular opportunities to participate in Science
- Opportunity for children to work independently and collaboratively
- Lessons that are practical and investigation based
- A subject team who monitors teaching and learning to improve standards and outcomes

- A link governor who liaises with the subject leader in order to monitor and improve standards
- A curriculum that meets the needs of all children

## **IMPACT**

Through implementing the above:

- Children will understand and apply subject specific vocabulary
- We aim for all children to achieve age related expectations
- Staff will use formative and summative assessments in order to know where children are in their learning
- Children will retain and build on knowledge that is pertinent to Science with a real-life context
- Children will be able to question ideas and reflect on knowledge
- Children will work collaboratively and practically to investigate and experiment
- Children will be able to explain the process they have taken and be able to reason scientifically