

St Mary's Catholic Primary School

Living and Learning Together – Shining in our Faith



Science Intent Document

Intent

At St Mary's Catholic Primary School, we are **SCIENTISTS!**

We want our children to be inquisitive about the world around them, to always ask the questions 'Why?' and 'How?' and develop a thirst to investigate the answers. We understand that Science enables our children to have a greater understanding of the world around them, its inhabitants and how we must take responsibility in preserving it.

We want the children to develop their disciplinary knowledge of 'Working Scientifically' through developing the skills of observation, research, classifying, pattern-seeking and fair testing whilst developing their substantive knowledge through the understanding of topics. By developing both the disciplinary knowledge and substantive knowledge we are building the foundations for the future learning of Physics, Biology and Chemistry which may encourage our children to become the scientists of the future.

Implementation

At St Mary's Science is delivered to all children from EYFS to Year 6. In Early Years the Science is taught through a range of different topics using both the indoor classroom and outdoor learning spaces.

In KS1 and KS2 the science is covered over a two year cycle (A and B) and skills are built upon over this time in each age phase. The main themes that are covered are: Plants, Living Things and Habitats, Animals including Humans, Materials, Light and Sound, Earth and Space, Evolution, Forces, Electricity and Seasonal Changes.

We aim to help all children to develop an understanding of nature and scientific processes so that they are able to answer questions about the world around them. We also equip them with the scientific knowledge needed to understand the uses of science today and for the future.

Throughout lessons children will be challenged to think scientifically. They will have the chance to plan investigations, make predictions, discuss fair testing, make observations and explain their understanding and the answers to different questions by using scientific vocabulary.

Impact

Our Science curriculum offers high quality and well-planned lessons, which encourage progression. Key vocabulary is embedded in each lesson.

In order to ensure our aims have been met, we scrutinise learning through:

- Assessing children's understanding of the topic including linked vocabulary throughout the unit through using reflective questioning.
- Talking to children during the lesson to ensure they have understood the learning objective – Assessment for learning.
- Marking of completed work – Assessment for Learning.

For any additional information regarding the Science curriculum please contact Mrs Priestner (Subject Lead) or Mrs Ormsby (Subject Governor).