



Intent of the science curriculum

Science at St Patrick's will provide all pupils, regardless of any learning barriers, with a foundation for understanding the world around them. It aims to develop children's curiosity and excitement of natural phenomena as well as understand how scientists have and continue to help us understand the world around us.

Pupils will develop their scientific understanding and knowledge in order to allow them to form and test questions they have about the world. Through engaging tasks and investigations, children will accumulate knowledge of key scientific concepts. In addition to this, they will be encouraged to understand how science can be used to explain what is occurring, predict how things will behave and analyse cause and effect.

At St Patrick's, we want our children to understand how Science has changed our lives and that it is vital to the World's future prosperity. Our science curriculum is supported by the use of our outdoor school environment which is teeming with wildlife and opportunities to foster children's love of our World.

Implementation of the science curriculum

- Science is taught weekly.
- Teachers will use their professional judgement to decide how best to deliver the science curriculum within their classroom through whole class, focused group teaching and individual task design.
- Some learning takes place outdoors so pupils can investigate their immediate environment.
- Through our planning, we involve problem solving opportunities, allowing children to find out for themselves how to answer questions in a variety of practical means. Children are encouraged to ask their own questions and be given appropriate equipment to use their scientific skills to discover the answers.
- We build upon the learning and skill development of previous years. As the children's knowledge and understanding increases, and they become more proficient in selecting and using scientific equipment, collating and interpreting results, they become increasingly confident in their growing ability to come to conclusions based on real evidence.
- Teachers demonstrate how to use scientific equipment, and the various Working Scientifically skills in order to embed scientific understanding. Teachers find opportunities to develop children's understanding of their surroundings by accessing outdoor learning and interactions with experts.
- Each Year group looks at a particular Scientist to show how science is relevant to the world we live in.
- Scientific knowledge is supported through a range of fictional stories to further engage pupils.

Impact

By the time the children leave St Patrick's at the end of Key Stage 2, they have a foundation for understanding how science has changed our lives and that it is vital to the world's future prosperity. They will understand how science can be used to explain what is occurring, predict how things will behave, and analyse causes, enabling them to make sense of the world around them.