



St. Patrick's Catholic Primary School

Science

Intent, Implementation and Impact Statement

Intent.

At St Patrick's we recognise the importance of Science in our everyday lives and give it the prominence within the curriculum it deserves as a core subject. Within the Science curriculum the children have opportunities to develop their knowledge and understanding of the world, enquiry skills, evaluation of evidence, natural curiosity and respect for living things and creation. Through the teaching and learning of Science we aim to prepare children for living and working in a scientific world and to develop knowledge, concepts, skills and aptitudes to enable pupils to engage in a broad range of scientific activities.

In teaching Science we expect that all children:

- are helped to acquire scientific knowledge
- are encouraged to think scientifically
- are inspired with a desire to explore the world of science
- are helped to relate science to everyday life
- are enabled to meet the needs of the national curriculum for science
- are helped to communicate their knowledge and experiences with others
- develop the need for safe and structured working practices

Implementation

We teach the National Curriculum, supported by a clear skills and knowledge progression. *(Please see the Progression in Scientific Knowledge and Working Scientifically documents for further details.)* This ensures that skills and knowledge are built on year by year and sequenced appropriately to maximise learning for all children.

In order to make it clear to pupils what they should know by the end of the unit, 'Knowledge Organisers' have been created for each unit of study. These have been broken down into 6 or 7 lessons, each framed by a key question. Each lesson contains key explanations and application tasks for children to demonstrate what they have learnt. Opportunities are given for children to write at length. Links are made with the wider curriculum where possible, particularly with maths and computing. Key working scientifically enquiry skills also form an integral part of each lesson. This collection of lessons combines to become a spiral bound 'Pupil Booklet' which the children write in.

Our curriculum is taught on a two-year cycle (Year A and Year B) and within phases (Years 1/2, Years 3/4 and Years 5/6). Teaching throughout the school makes links in a cross-curricular fashion, to develop connections and enrich the learning experience.

Impact

- Children enjoy and are enthusiastic about science.
- Children see themselves as scientists now and understand they could have a future career in an aspect of science
- There is a clear progression of children's work and teachers' expectations.
- Children's work shows evidence of coverage of knowledge and working scientifically skills.
- Children become increasingly independent in science, selecting their own tools and materials, completing child-led investigations and choosing their own strategies for recording through the school.
- Standards in science at the end of key stages are good.
- They are ready for the next steps of science at secondary school