

# ST. BERNADETTE'S CATHOLIC PRIMARY SCHOOL

## Science Curriculum



*Learn to Love, Love to Learn*

Mrs Brownhill and Miss Corkery 2020/2021



## Intent

St Bernadette's is a Catholic School and we are committed to the Catholic faith, recognising and valuing every individual as special and unique, created in the image and likeness of God. We are a beacon of hope in our community and we live by the motto Learn to love, love to learn.

At St Bernadette's Catholic Primary School, it is our intent that children will be filled with awe, wonder and curiosity and will become resilient and respectful adults through the experiences they are provided with through our Science curriculum. Science teaching at our school aims to give all children a strong understanding of the world around them, whilst acquiring specific skills and knowledge to help them to think scientifically, to gain an understanding of scientific processes and of the uses and implications of Science, today and for the future. We aim to make learning relevant to our children by providing them with real life experiences linked to their science topics, making them aware of the importance and relevance of science in the real world. These opportunities provide a wealth of experiences for all pupils to acquire the knowledge and cultural capital that they need to succeed in life, including our disadvantaged pupils and pupils with SEND. Scientific enquiry skills are embedded in each topic and many topics are revisited and developed throughout their time at school. Topics, such as Plants, are taught in Key Stage One and studied again in further detail throughout Key Stage Two. This allows children to build upon their prior knowledge and increases their enthusiasm for the topics whilst embedding this knowledge into the long-term memory. All children are encouraged to develop and use a range of skills including observations, planning and investigations, as well as being encouraged to question the world around them and become independent learners in exploring possible answers for their scientific based questions. Specific scientific vocabulary for topics is taught and built up, and effective questioning to communicate ideas is encouraged. Reading is an integral part of



Science and is promoted in lessons through the variety of resources available to children.

### **Implementation**

- A clear and comprehensive scheme of work is planned for each topic in each year group in line with the National Curriculum, where teaching and learning should show progression across all key stages.
- Delivered through a topic blocking approach to allow the pupils to immerse fully in the concepts for 8 – 10 lessons, taught as 3 lessons over every two-week period.
- Lessons are engaging with many practical tasks and demonstrations that involve the pupils in their own understanding of the concepts as dictated in the National Curriculum.
- Each year group will have at least one 'real-life' experience built into a specific topic, which will enhance the pupil's learning and awareness of where science fits within their lives.
- Children will use a range of appropriate, engaging resources to develop their knowledge and understanding of each topic and to develop their understanding of working scientifically skills.
- Children are exposed to and are strongly encouraged to use scientific vocabulary specific to each topic in every lesson.
- Children will be able to build upon prior knowledge and link ideas together, enabling them to ask questions and become enquiry-based learners.
- Gaps in the children's knowledge and skills will be addressed through effective verbal and written feedback from teachers.
- Assessment is used throughout each topic which helps embed knowledge and assist teachers to identify the next steps for pupils, through the use of teacher judgement based on pupils' responses during lessons.



## Impact

- Children enjoy and are enthusiastic about science at St Bernadette's.
- There is a clear progression of children's work and teachers' expectations in our school.
- Children's work shows a range of topics and evidence of the curriculum coverage for all science topics.
- Children are becoming increasingly independent in science, using scientific vocabulary, selecting their own tools and materials, completing pupil led investigations and choosing their own strategies for recording.
- Children can work collaboratively and practically to investigate and experiment.
- Feedback from teachers has impact on our pupils, often with next step questions to push learning on.
- Children will understand the role that science plays in their lives.
- Children will be filled with awe, wonder and curiosity by the experiences they are provided with through our Science curriculum.



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