



Science Vision Statement



Why is Science important?

At St. Bede's Catholic Primary School, our vision is to give children a science curriculum which enables them to confidently explore and discover the world around them so that they have a deeper understanding of the world we live in.

At St. Bede's, we have a whole school ethos of *respecting* both the immediate and wider environment and community. We encourage the children to be *responsible* and recognise how lucky we are to have our school grounds that can be used as a resource.

We realise that young children are naturally curious and passionate about learning; we provide a stimulating science curriculum that nurtures children's natural curiosity and their ongoing intellectual development.

At St. Bede's we recognise the importance of Science in every aspect of daily life. As one of the core subjects taught in primary school, we give teaching and learning of Science the prominence it requires.

What does Science look like in our school?

Our aim is to provide hands-on, stimulating and challenging experiences to help children secure and extend their scientific knowledge and vocabulary.

We encourage pupils to be *confident* to ask questions and not to be afraid of getting it wrong, but instead viewing it as an opportunity to learn.

We follow the 2014 National Curriculum for Science which aims to ensure that all children:

- Develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics
- Develop understanding of the nature, processes and methods of Science through different types of scientific enquiries which helps them to answer scientific questions about the world around them.
- Are equipped with the scientific skills required to understand the uses and implications of Science, today and for the future.

In our Foundation Stage, Science will be taught as an integral part of the topic work. We relate the scientific aspect of the children's work to the objectives set out in the Early Learning Goals included in Knowledge and Understanding the World.

We believe that these opportunities will ensure that our children are confident, life-long learners who will explore the world around them.



Science Vision Statement



By the end of Reception most children can:

- Identify, classify and group
- Observe over time
- Looks closely at similarities, differences, patterns and change
- Discuss and explain their findings

By the end of Year 2 most children will be able to:

- Follow scientific methods, processes and skills
- Ask simple questions and recognise that they can be answered in different ways
- Observe closely, using simple equipment
- Perform simple tests
- Identify and classify
- Use their observations to suggest answer to questions
- Gather and record data to help answer questions

By the end of Year 6 most children are able to:

- Plan different types of scientific enquiries and answer questions, including recognising and controlling variables
- Take measurements, using a range of scientific equipment with increasing accuracy and precision, take repeat readings when appropriate
- Record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs
- Use test results to make predictions to set up further comparative and fair tests
- Report and present findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations
- Identify scientific evidence that has been used to support or refute ideas or arguments