Intent:

What do we want children to learn?

At St Leonards, we recognise the importance of science in every aspect of daily life. As one of the core subjects taught in primary schools, we give the teaching and learning of science the prominence it requires. Our aim is to equip our children with the working scientific skills, knowledge and vocabulary motivated by our core skills of active learning, enquiry and creative thinking.

The National Curriculum shapes our Science curriculum for Science, our school curriculum, our school values and the ethos at St Leonards. Our science curriculum 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 science enquiries that help 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.

Science in a Nutshell



ST Leonard's CE Primary Academy

Implementation:

How do we do it at ST Leonard's CE Primary Academy and what does it look like?

Across the school, Science lessons follow a consistent teaching approach, with learning based on our Cornerstones Science units. Each lesson begins by connecting new learning to children's prior knowledge, helping them to understand where the learning fits within the wider science topic and the world around them.

Teachers explicitly introduce and model key scientific vocabulary, revisiting important terminology throughout the lesson so that children can use scientific language accurately when talking and writing about their learning. Children are encouraged to explain their thinking, ask questions and make connections between different scientific concepts.

Working scientifically is an integral part of our Science teaching. Children are explicitly taught and given regular opportunities to develop skills such as observing, classifying, measuring, recording, comparing, identifying patterns, carrying out fair tests and using evidence to draw conclusions. Teachers model these skills and provide opportunities for children to practise and apply them independently.

Where appropriate, lessons include practical investigations and hands-on experiences, allowing children to explore scientific ideas and develop their understanding through first-hand experiences. Children are encouraged to make predictions, carry out investigations, record their observations and results, and use these to explain what they have found.

Throughout lessons, teachers use a range of questioning and teaching approaches to check understanding, address misconceptions and deepen children's thinking. Children are given opportunities to communicate their scientific knowledge in different ways, including through discussion, diagrams, tables, written explanations and conclusions.

By the end of a unit, children are able to explain what they have learned, use appropriate scientific vocabulary, apply their knowledge and demonstrate the skills of a scientist.

Impact:

On leaving ST Leonard's CE Primary Academy children will:

Children will have developed an enjoyment and a sense to enquire deeper into all areas of Science. They will have a positive attitude and resilience towards enquiry, investigation and evaluation within Science. They will be tolerant learners who persevere and are ready to take their learning into the local community and apply their scientific understanding to the world around them, seeking a better future through sustainability. Children will know that the use of mistakes and misconceptions is an essential part of learning and through our curriculum they will show secure knowledge and ability to recall essential information and skills covered across their time at St Leonards based on the Science coverage within the National Curriculum.