



*'Discovering life in all its fullness.'*

● *Hesed* ● *Hamdah* ● *Honesty* ● *Horizons* ●

## Science

### Overview

At Lindridge St Lawrence CE VA Primary we believe that a high-quality Science should engage, inspire and challenge pupils, equipping them with the knowledge and skills to participate, practice and flourish as young scientists. As children progress, they should be able to think critically and develop a more rigorous understanding of science and scientific thinking.

### Intent

The 2014 national curriculum for science aims to ensure that all pupils:

- 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 knowledge required to understand the **uses and implications** of science, today and for the future.

At Lindridge CE Primary School, we encourage children to be inquisitive throughout their time at the school and beyond. The Science curriculum is designed to foster a healthy curiosity in children about our universe and promotes respect for the living and non-living. Science encompasses the acquisition of knowledge, concepts, skills and positive attitudes. Children will acquire and develop key knowledge that has been identified within each unit and across each year group, as well as the application of scientific skills. Children will apply their knowledge of science when using equipment, conducting experiments, building arguments, explaining concepts confidently and continue to ask questions, predict how things will behave, and analyse causes.

### Implementation

Teachers create a positive attitude to science learning within their classrooms and reinforce an expectation that all children are capable of achieving high standards in science. Our whole school approach to the teaching and learning of science involves the following:

Science will be taught from the programmes of study from the national curriculum, planned and arranged in topic blocks by the class teacher, to have a project-based approach. This is a strategy to enable the achievement of a greater depth of knowledge.

Assessment: We assess against the programmes of study in the national curriculum.

Children are involved in problem solving opportunities and encouraged to ask their own questions. Teachers use precise questioning in class to test conceptual knowledge and skills, and assess children regularly to identify those children with gaps in learning.

We build upon the learning and skill development of the previous years. The science curriculum provides opportunities for pupils to make connections between ideas.

Working scientifically skills are embedded into lessons to ensure these skills are being developed throughout the children's school career and new vocabulary and challenging concepts. This is developed through the years, in-keeping with the topics.

Teachers demonstrate how to use scientific equipment safely. Children are taught how to work scientifically. Children's understanding of their surroundings is developed by accessing outdoor learning and workshops with experts.

Children are offered a wide range of visits, trips and visitors (including science week) to enhance the curriculum.

### Impact

The successful approach at Lindridge CE Primary School enables children to feel they are scientists and capable of achieving well, enjoy science and be motivated by their learning and have sound scientific understanding.

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