

Subject on a Page

Science

At St Luke's Church of England Primary School, we believe all pupils deserve the opportunity to become competent, confident, perceptive writers who have access to a wide array of high-quality texts across a range of genres. We want every child to leave us with the motivation, ability and understanding of how to express themselves effectively for a variety of purposes and audiences.



Intent - What do we aim to deliver?

For our children to develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics.

The children will develop an 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.

The children will be equipped with the scientific skills required to understand the uses and implications of science, today and for the future.

They will use a range of methods to communicate their scientific information and present it in a systematic, scientific manner, including I.C.T., diagrams, graphs and charts.

Throughout the programmes of study, the children will acquire and develop the key knowledge that has been identified within each unit and across each year group.



Implementation - How do we aim to deliver it?

- The children's existing knowledge will be checked at the beginning of each science topic. This ensures that teaching is informed by the children's starting points.
- We will build upon the knowledge and skill development of the previous years
- As the children's knowledge and understanding increases, they become more proficient in selecting, using scientific equipment, collating and interpreting results, they become increasingly confident in their growing ability to come to conclusions based on real evidence.

Key Vocabulary

Data	Fair Test	Classify	Identify	Comparative
Predict	Explanation	Pattern	Describe	Graphs

Working Scientifically

Question	Record	Present	Evidence	Compare
Research	Report	Conclusion	Clarify	Observe

Science will be taught as both a stand-alone subject and through theme planning (where applicable).

Existing knowledge is checked at the beginning of each science topic. This ensures that teaching is informed by the children's starting points.

Children will be encouraged to ask their own questions and be given opportunities to use their scientific skills and research to discover the answers.

Children will have problem solving opportunities that allow them to apply their knowledge, and find out answers for themselves .

The working Scientifically skills are embedded into lessons to ensure that skills are systematically developed throughout the children's school journey and new vocabulary and challenging concepts are introduced through direct teaching.

Impact - How will we know we have delivered it?

Children will receive a fun, engaging, high-quality science education, that provides children with the foundations and knowledge for understanding the world.

Children will achieve age related expectations in Science at the end of their cohort year.

Children will work collaboratively and practically to investigate and experiment.

Children will retain knowledge that is pertinent to Science with a real life context and they will be able to question ideas and reflect on the knowledge that they have.

John 13: 34-35 says: 'Love one another. As I have loved you... By this everyone will know that you are my disciples.'