



Science Policy Statement



Intent:

At Christ Church CofE Primary School, our intent for the Science curriculum is to cultivate a sense of curiosity and inquiry among children about the natural and human-made world. We aim to empower children to ask questions, explore scientific concepts, and engage in hands-on experimentation. Our focus is on developing a strong understanding of key vocabulary and technical language, which will enable children to articulate their scientific ideas clearly and effectively.

Key Objectives:

- **Understanding Key Vocabulary:** Children will learn and use scientific vocabulary accurately, helping them to communicate their observations and ideas with precision.
- **Curiosity and Inquiry:** We encourage children to ask questions about their surroundings and to explore these questions through scientific investigation and experimentation.
- **Process of Experimentation:** Children will develop a clear understanding of the scientific method, including how to plan, conduct, and evaluate experiments, fostering critical thinking and problem-solving skills.
- **Building on Prior Knowledge:** We aim to connect new scientific concepts to children's existing knowledge and experiences, ensuring a deeper understanding and retention of information.

Implementation

The implementation of our Science curriculum is structured around the National Curriculum requirements, ensuring a coherent and progressive approach to learning. Key elements include:

Curriculum Design:

- Topics are carefully sequenced to build upon prior knowledge, allowing children to make connections between different scientific concepts and phenomena.
- Each unit of study emphasises significant scientific ideas, such as the properties of materials, the life cycles of living organisms, and the principles of forces and motion.

Teaching Strategies:

- **Quality First Teaching:** We employ a range of instructional practises that cater to diverse learning needs, ensuring all children can access the curriculum and make progress.
- **Active Learning:** Lessons incorporate hands-on experiments, discussions, and collaborative activities to engage children and deepen their understanding of scientific concepts.
- **Focus on Vocabulary:** Explicit teaching of scientific vocabulary is integrated into lessons, with opportunities for children to practice using this language in context through oral and written activities.

Assessment and Feedback:

- Regular formative assessments are conducted to monitor children's understanding and progress, allowing for timely interventions and support.
- Summative assessments at the end of each unit help evaluate the depth of knowledge acquired and inform future planning.

Impact

The impact of our Science curriculum is measured through various outcomes:

- **Knowledge and Understanding:** Children will demonstrate a deeper understanding of key scientific concepts and processes, evidenced through their ability to articulate connections and draw conclusions about their observations.
- **Scientific Vocabulary:** By the end of their primary education, children will confidently use scientific vocabulary and technical language, enhancing their ability to communicate their ideas effectively.
- **Curiosity and Inquiry:** Children will exhibit a strong interest in science, asking questions and seeking to learn more about the world, which will foster lifelong learning habits.
- **Experimentation Skills:** Through hands-on investigations, children will develop a clear understanding of the scientific method, enabling them to plan, conduct, and evaluate experiments with confidence.

In summary, our Science curriculum at Christ Church CofE Primary School is designed to equip children with the knowledge, skills, and attitudes necessary to understand and engage with scientific concepts, fostering a generation of informed, curious, and capable learners.