

Science at Horncastle

Science is an important element in the broad and balanced curriculum we aim to provide at Horncastle Primary School. Through our science curriculum, we provide opportunities to develop children's knowledge and understanding. Children should develop an awareness of the nature, processes and methods of science using different kinds of scientific enquiries that help them to answer specific questions about the world around them. The opportunities that science provides to work practically, in a variety of contexts, underpins their learning journey.

Every brilliant experiment, like every great work of art, starts with an act of imagination.

Our Aims and Purpose

- Develop scientific knowledge through the disciplines of chemistry, biology and physics.
- Encourage children to develop a curiosity and interest in science.
- Children talk confidently about learning in science using appropriate and technical vocabulary.
- Children are prepared for their next stage of their scientific journey.
- Children confidently apply their scientific knowledge to other areas of learning.



How do we do it?

- Teachers will act as role models in their enthusiasm for science.
- Sciences lessons create an environment which stimulate children's imagination where all ideas are accepted and valued.
- Children who find science difficult will be identified and supported during lessons.
- Children will be taught to read, write, spell and pronounce scientific vocabulary that has been tailored to meet the National Curriculum. This ensures all children have the opportunity to enjoy and understand science.

The fundamentals

- A belief that every child can and will become a competent scientist
- A focus on the teaching of scientific vocabulary
- Opportunities to have hands-on experience with scientific equipment to enhance learning
- Understand what it means to work scientifically and apply this to the learning
- Engaging science displays in the classroom, which includes key vocabulary

Horncastle Science Strategies

- Science taught weekly
- Vocabulary explicitly taught
- Vocabulary on display
- Knowledge organisers created to include key learning
- Science taught within a cross curricular project where the link is strong

Planning

Class teachers are required to follow the topics outlined in the National Curriculum. Science, being a core subject, should be taught for a minimum of an hour a week. Science is taught within a cross curricular way if it is the driver of the project. In all other cases, science should be taught as a stand-alone subject, in science books, rather than project books. When there is a weak link, for example teaching rocks during a Stone Age topic, as this is not the main focus, the rocks learning should be in science books rather than project books.

At the start of each science lesson, teachers should include a vocabulary focus in their planning; this will take the form of a 10 minute lesson starter. Each vocabulary session will use a new word from the list of 10 that has been provided and follows the National Curriculum. Each year group (from Y1-Y6), will follow the '10 steps in 10 minutes' lesson plan format to ensure there is consistency across the school.