



Compassion, Hope, Reverence, Wisdom

Science Vision

School Vision

*As a church school we place a strong emphasis on a Christian ethos and our skills-based curriculum is underpinned by our four distinctively Christian values of: compassion, hope, reverence and wisdom ensuring all pupils are equipped to 'live life in all its fullness.'
(John 10:10)*

Subject Vision

To develop children's scientific knowledge, enquiry skills and understanding of the nature, processes and methods of science, for now and the future.

Science Overview

At Hunton, we endeavour to make science practical and hands-on for students as they hypothesise, investigate, record, conclude and evaluate. Whilst teachers provide pupils the opportunity to enhance scientific knowledge, teachers also endeavour to allow the children to improve upon their scientific enquiry skills through chemistry, biology and physics topics.

Teaching and Learning of Science

Throughout KS1, there is a heavy emphasis on human science that encourages pupils to foster an interest in themselves and organisms that live around them. Pupils are encouraged to engage in practical investigations in the outdoor learning environment.

In KS2, to support engaging science teaching and learning, Hunton is supported by the 'Empiri Box' Scheme and are provided with real resources and chemicals with the intention of turning the classroom into a science lab. Pupils are provided with the knowledge that allows a foundation to enhancing their enquiry skills of: planning, data and evaluation. At Hunton, teachers aim to foster a love for science through prompting questions, curiosity and hypotheses, that pupils can test by investigating real-life, practical experiments. At Hunton, we encourage pupils to take managed risks with chemicals and resources, within a safe environment, whilst having a full understanding of how to handle them carefully and safely.

What you should see in books

Scientific knowledge should be evident in books, where pupils define scientific terminology and demonstrate an understanding of basic science theory. Additionally, photographic evidence of pupils undertaking practical experiments should be evident with annotations and learning comments in whole class learning experience books for EYFS and KS1, and individual pupils' books in KS2 with pupil-led learning comments to describe the learning involved. The scientific enquiry skills of: planning, data and evaluation should also be evident with a different focus each term.

Identification of pupils not on track and given support

Through teachers' formative assessment and key questioning, pupils will be given additional support with scientific knowledge in order for that pupil to appreciate the learning involved within the practical science experiment. Pupils can be provided with a scaffold to aid them with any science terminology. As group work is plentiful within science lessons, carefully planned groups of mixed ability can support their peers.

Engagement of Science

Converting classrooms into 'science labs' makes the learning feel real and practical for pupils. Allowing pupils the opportunity to handle more advanced resources and chemicals makes pupils feel responsible and like scientists. Pupils enjoy making their own theories before testing their hypothesis. Some experiments require observing change over time; this allows pupils, even though it is not a set science lesson, to allow science to embed throughout the week, constantly drawing upon science experiences.

Engaging parents and volunteers

To invite parents in to a parental workshop, having the opportunity to engage in science with their child, whilst having a better understanding of what the teaching and learning of science looks like within Hunton School.



Compassion, Hope, Reverence, Wisdom

Measuring Progress

Pupils need to demonstrate an understanding of scientific knowledge, as well as their ability to apply scientific enquiry skills, both of these elements will need to be assessed. Pupils will be recorded if they are working below the expected standard or above the expected standard.

Training

Hunton has worked with an outstanding school to improve the standard of science teaching and learning. KS2 teaching teams attend the termly Empiri Box training that enhances both subject knowledge of the staff, whilst demonstrating the practical elements of the science investigations to the pupils. Additionally, the training allows staff to have an insight on what the science learning will feel like as a pupil and encourage carefully constructed lessons accordingly.