

Science

Intent, Implementation and Impact

Intent

Science teaching at Wingrave gives all children a strong understanding of the world around them whilst facilitating the acquisition specific skills and knowledge to help them to think scientifically, to gain an understanding of scientific processes and an understanding of the uses and implications of Science, today and for the future. Our children are encouraged to behave and think like scientists, asking challenging questions of the world around them with how, why and what next at the centre of their thinking. Our children are challenged to observe, plan, investigate and question the world around them with curiosity and creativity.

Implementation

At Wingrave, Science is taught as a spiral curriculum with essential knowledge and skills revisited, with increasing complexity, throughout children's time at the school. This allows pupils to revise and build on their previous learning. Science lessons take place weekly and are taught as a discrete subject through years 1-6. We follow the Kapow scheme of work, as a basis to our planning, which ensures that all areas of the National Curriculum are taught. However, we will always ensure lessons are planned to cater for each individual class to challenge and engage the children, immersing them in scientific discovery. Cross curricular links are included in all our learning allowing our children to make connections and apply their science skills to other areas of their learning.

Impact

Our children are formally assessed on a half termly basis to enable teachers to plan lessons to get the best out of the children, challenging to question and be curious. This ensures that all children are equipped with the scientific skills and knowledge that will enable them to progress through the school and to be ready for the secondary curriculum and for life as an adult in the world outside the classroom. Our children able to verbal explain and actively demonstrate their ability to interpret scientific thinking and suggest ways in which they might explore a scientific principle. Our science curriculum lead undertakes regular learning walks, book looks, pupil voice discussions and subject monitoring to ensure that our children are gaining the skills and knowledge to allow them to be curious about the world around them.

EYFS

Our early years children follow the EYFS framework which is structured very differently to the National Curriculum. The skills and knowledge children develop in Early Years forms the foundations of the national curriculum subjects. Of the 7 broad areas of learning, Science skills are gained and strengthened in the areas of Communication and Language, Personal, Social and Emotional Development and Understanding the World.

As with other subjects Science is not taught discreetly in Early Years, instead the children's curiosity, creativity and joy lead our Early Year's staff to facilitate, engage and challenge our children's questions about the world around them. The children are at the heart of our science learning and in Early Years their skills and knowledge are built on how they interpret the world around them.



“The Kingdom of Heaven is like a tiny mustard seed planted in a field. It is the smallest of all seeds but becomes the largest of plants, and grows into a tree where birds can come and find shelter.”

Matthew 13:31-32