

Science at Kingfisher CE Academy



Kingfisher
CE ACADEMY



Intent: What do we want children to learn?

Our vision is to equip our children with not only the requirements of the National Curriculum but to prepare them for the opportunities, responsibilities and experiences of later life. As a core subject, we give the teaching and learning of science the prominence it requires. We aim to provide our children with an understanding of how science has changed the lives of human beings. We encourage our children to explore how they can contribute to science and its vital role in the world's future prosperity. Our high-quality science education will provide children with skills, practical experiences and opportunities to question and explore. We aim to promote a love of learning and have no limits to what their ambitions are. We teach and share with our children what science might look like in their futures; we endeavour to inspire future astronauts, forensic scientists, toxicologists or microbiologists.

Implementation: How do we do it at Kingfisher CE Primary Academy?



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At Kingfisher CE Academy, science is taught weekly, and children are provided with challenging, enquiry-based experiences, where they can foster curiosity. A consistent teaching sequence is used across the school. Each session provides an opportunity to look at the bigger picture and use the sentence STEMs "I see... I notice... I wonder..." Each session includes opportunities to recap and embed prior learning to enable children to support their ability in 'knowing more and remembering more'. During lessons and continuous provision (in EYFS), children will be immersed in key scientific vocabulary as it will support their acquisition of scientific knowledge and understanding. The following types of scientific enquiries are woven throughout our curriculum and implemented into provision: Problem Solving, Pattern Seeking, Comparative/Fair Testing, Research, Observation Over Time and Identifying, Grouping and Classifying to ensure that children are gaining a full breadth of opportunities. All aspects of 'Working Scientifically' from the National Curriculum are interwoven throughout our curriculum, again, to ensure that children understand what it means to be a successful scientist. At Kingfisher CE Academy, we aim for children to use science to explain what is occurring, predict how things will behave and analyse causes. Our curriculum fosters exploration through research, investigating and evaluating experiences.

Impact: On leaving Kingfisher CE Primary Academy children will:



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Through implementing a progressive curriculum, we will ensure Kingfisher CE Academy will remain at the cutting edge of science teaching and delivery. The successful approach to the teaching of science will result in a fun, engaging, high quality science education, that provides children with the foundations for understanding the world that they can take with them once they complete their primary education.

Assessment at Kingfisher CE Academy, is teacher based and formed using formal and informal strategies. Formative assessment is used as the main tool for assessing the impact of Science as it allows for misconceptions and gaps to be addressed more immediately rather than building on insecure scientific foundations. At the end of a term, children have an opportunity to show their learning in different ways. This is used

Children at Kingfisher CE Academy will:

- Demonstrate a love of science and an interest in further exploration in continuous provision.
- Retain knowledge that is pertinent to Science with a real life context.
- Be able to question ideas and regularly reflect on knowledge.
- Be able to articulate their understanding of scientific concepts and be able to reason scientifically using high quality scientific language.
- Demonstrate mathematical skills through their work, organising, recording and interpreting results.
- Work collaboratively and practically to investigate and experiment.

The impact of learning will be assessed through: Pupil voice, book looks, floorbooks, tapestry, lesson drop-ins. This will then be used to inform action plans, curriculum adaptations and experiences.