

Approach to Science

What Science looks like at Tadpole Farm CEPA.

Our Medium Term Planning each term is based on National Curriculum Statements and Scheme of Work (Snap Science). Knowledge organisers are present for each topic in all year groups for children to use to embed their knowledge and are revisited every lesson. Lessons will include learning about a range of scientific theories, investigations and enquiry skills they can use to understand the world around them.



Tadpole Farm
CE Primary Academy



We are Scientists.

Intent:

What do we want children to learn?

At Tadpole Farm, we recognise the importance of science in every aspect of daily life. As one of the core subjects taught in primary schools, we give the teaching and learning of science the prominence it requires. Our aim is to equip our children with the working scientific skills, knowledge and vocabulary motivated by our core skills of active learning, enquiry and creative thinking.

The National Curriculum along with the scheme of work - Snap Science - shapes our Science curriculum, our school curriculum, our school values and the ethos at Tadpole Farm. Our science curriculum aims to ensure that all children:

- develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics
- develop understanding of the nature, processes and methods of science through different types of science enquiries that help them to answer scientific questions about the world around them
- are equipped with the scientific skills required to understand the uses and implications of science, today and for the future.

Implementation:

How do we do it at Tadpole Farm CEPA?

Across the school, there is a consistent teaching sequence. Each session begins with key vocabulary the question being asked along to links being made to prior learning and other subjects. Enquiry and Working scientifically skills will be shown with visuals in each class to show the children the skills they will focus on in that lesson. Every lesson will begin with explore and moving onto enquire. Practical resources will be used where possible, to enhance scientific enquiry. Pupils will be provided with opportunities to interpret their observations, results and conclusions; communicating their scientific knowledge and understanding appropriately, before evaluating their learning through reflection and reviewing. A wide variety of teaching approaches will be used in science lessons to ensure children make good progress; show resilience and all individual needs will be catered for. Knowledge organisers will be shared with the children in order to provide them with the key vocabulary they will require and revise their learning. Enquiry and Working scientifically skills will be displayed in all classrooms and through recognition of these, children's' scientific vocabulary and explanations will allow discussions to delve deeper into the concepts.

Impact:

On leaving Tadpole Farm CEPA, children will...

Children will have developed an enjoyment and a sense to enquire deeper into all areas of Science. They will have a positive attitude and resilience towards enquiry, investigation and evaluation within Science. They will be tolerant learners who persevere and are ready to take their learning into the community and apply their scientific understanding to the world around them, seeking a better future through sustainability. Children will know that the use of mistakes and misconceptions is an essential part of learning and through our curriculum they will show secure knowledge and ability to recall essential information and skills covered across their time at Tadpole Farm based on the Science coverage within the National Curriculum.

Everything is possible for one who believes (Mark 9.23)