

Science on a page

At Ridgeway Farm, we aim to encourage children to be scientifically curious, observing and asking questions about the world around them. We have chosen to use white rose science to underpin our scientific curriculum as it provides an ambitious curriculum that is accessible to all pupils and has progressive knowledge and skills that builds progressively through each year.



Intent – We aim to...

We aim to foster creativity, independence, and perseverance in our children by encouraging them to plan and carry out scientific enquiries with curiosity and confidence.

We aim to enable our children to develop key scientific skills and knowledge, including the use of technical science vocabulary and the ability to communicate findings confidently, using correct scientific terminology.

We aim to develop the children's 'working scientifically' skills as they progress through school, providing opportunities to collect, present, and analyse data across the curriculum. Children will learn to present data in a variety of methods including tables, bar charts, line graphs, pictograms and pie charts.

We aim to prepare our children to understand the challenges and developments we face in society today, encouraging them to take responsibility as informed global citizens.

Ultimately, we hope that children will be enthusiastic and motivated scientists, who will continue their love of learning science beyond Ridgeway Farm.



Implementation – How do we achieve our aims?

Implementation

We achieve our aim by delivering a comprehensive science curriculum that aligns with the National Curriculum, ensuring that all aspects, knowledge, and skills of science are taught across all year groups. Our curriculum is designed to cover the National Curriculum requirements, with staff using White Rose Science units to plan engaging lessons that incorporate both practical and knowledge-based elements. White Rose Science provides engaging lesson content in the same progressive, step-by-step method as the White Rose Maths scheme. Each lesson is carefully designed with opportunities for hands-on learning and is linked to the class topic where possible. All staff will use assessment for learning to ensure all lessons are relevant and will help to plan for next steps. All science lessons will start with Flashback 4s, designed to recap prior learning from previous topics within the current year group as well as from previous year groups. This routine supports pupils in recalling and reinforcing their subject knowledge, helping them build a stronger foundation and retain key scientific concepts over time.

We will develop the use and understanding of correct scientific and technical vocabulary. The teaching of Science will be through regular investigative work, with a strong emphasis on exploration and discovery.

We will support all children as appropriate so that everyone can access the curriculum as well as provide additional challenge to children where appropriate to develop their skills and knowledge beyond the expected curriculum requirements. Where repetition of skills or knowledge is required, these will be clearly identified. All staff will have high standards and expectations of Science and positive attitude towards Science. Knowledge Organisers are created with key concepts and knowledge and key vocabulary.



Impact – How will we know we have achieved our aims?

Children will enjoy Science and scientific experiences and will be enthusiastic investigators.

Children will be encouraged to research independently to further their own enjoyment and fascination about the topic or subject (eg through homework activities or independent research).

Evidence of work will show secure knowledge and skill coverage and development, with cross-curriculum links and supported work where necessary.

Standards in Science will be high. Subject Leaders and SLT will monitor the subject by looking at work, displays and by talking to children.

The children experience what it is like to be a Scientist and have a passion for Science.