

Science Intent, Implementation & Impact Statement

At Drove Primary School we give children “The roots to grow and the wings to fly”.

In order to achieve this, we have carefully designed a curriculum which is underpinned by 4 Golden Threads:



Our Intent for our Science Curriculum:

At Drove Primary School, our 4 Golden Threads underpin our curriculum intent enabling our pupils to achieve the following in Science:

- Become curious within science and develop a deeper understanding about the world.
- Develop a secure substantive knowledge within the three aspects of science: biology, physics and chemistry.
- Participate in practical enquiries linking to the 6 enquiry types: Ask question and plan enquiry, Setting up Enquiries, Observing and Measure, Record, Interpret and Report, Evaluate.
- Provide experiences to make connections in their learning and to know more, remember more and do more each year leading to success and enjoyment.
- Progressively develop their scientific knowledge and working scientifically skills.
- Use subject specific vocabulary with confidence orally and within writing.

Our intent at Drove Primary is to provide children with a science curriculum that develops a sound understanding of the three aspects of science: Biology, Physics and Chemistry. Through using visual stimuli and giving hands on experience, we aim to equip children with the scientific enquiry skills and vocabulary necessary to ask questions, investigate and explain the changing world around them.

Implementation:

At Drove Primary we have developed science in line with the National Curriculum. We give the children the opportunity to develop their scientific knowledge and skills through our carefully sequenced planning which is progressive across the school. Our whole school approach towards science involved the following:

- In EYFS, continuous provision using a high-quality learning environment encourages and promotes children to develop their understanding of the world through playing and exploring, active learning, and thinking critically.
- Our children in KS1 and KS2 take part in a minimum of 1 hour of science per week and develop their knowledge and scientific skills mapped out in our progression documents.
- Children are immersed in subject-specific vocabulary defined within our knowledge organisers and on our working walls to develop their oral and written science work.
- Each year, children have the opportunity to gain further scientific experiences through participating in:
 - The 'Festival of Tomorrow'- children take part in workshops with expert scientists.
 - The White Horse Federation Science Festival – children meet up with other schools to take part in themed investigations.
- Within lessons, children have the opportunity to use high-quality resources to actively investigate and further their knowledge and scientific skills.
- Each term, TAPS (Teachers Assessment in Primary Schools) is used to support the assessment of children's scientific skills.

Impact:

Our intended impact in science is that by the time our pupils leave Drove Primary School, they will have developed:

- An interest in science and an enthusiastic approach to learning, which develops their curiosity of the world which we live in.
- A secure knowledge and understanding of the key scientific concepts within the National Curriculum.
- An understanding of the different enquiry types.
- The confidence to apply their Working Scientifically skills to plan, carry out and evaluate scientific enquiries.
- The ability to use scientific vocabulary to clearly articulate their understanding of science.