

# Science



## Intent: We aim to...

Fully immerse pupils in every aspect of science, enabling them to recognise the importance of science in daily life.

We ensure the teaching and learning of science has the importance and prominence it deserves by delivering a well-rounded, practical and engaging curriculum. Within our science curriculum we focus on increasing pupils' knowledge and understanding of our world, and with developing skills associated with science as a process of enquiry. We aim to develop the natural curiosity of the child, encourage respect for living organisms and the physical environment, and provide opportunities for critical evaluation of evidence. Science lessons are hands-on, investigative and fun.



## Implementation: We achieve our aims by...

### Knowledge Organisers

Knowledge organisers are the starting point for our science curriculum. They give a clear and concise summary of the essential knowledge, concepts and vocabulary for each topic. This helps teachers with their planning of the lesson, ensuring they are focusing on the most important information and building on the relevant prior knowledge. These documents are written in pupil friendly language, so they can be used independently by pupils throughout the lesson.

### Scientific Vocabulary

Understanding key concepts in science is paramount, and to ensure these are understood, children must first be confident with the scientific vocabulary. The importance of this is highlighted in the inclusion of key vocabulary on all Knowledge Organisers and the teaching of these key words at the beginning of all lessons. Key words are then referenced in context throughout the teaching sequence.

### Practical Science

We believe that most topics within the primary science curriculum can benefit from hands-on exploration. By providing the necessary materials and equipment for experiments and supporting teachers to develop age-appropriate investigations and projects, we ensure our pupils have ample opportunity to engage with practical science. CPD and year group planning support is offered to staff when required.

### Working Scientifically

Working scientifically underpins the entire science curriculum and is key to ensuring pupils not only gain scientific knowledge, but also the skills necessary to become a primary scientist. Working scientifically is always linked to the teaching of substantive scientific content. Some of the skills are embedded in almost every science lesson (asking questions, predicting and using secondary sources), whilst others are taught explicitly, through the use of prewritten Learning Intentions.

### Types of enquiry

Pupils are exposed to the five different types of scientific enquiry through carefully planned activities in each year group. Teachers have received CPD in how to ensure coverage of all types of enquiry. As they progress in their journey as scientists, children are expected to identify and choose enquiry types independently.

