



## Our Science Curriculum

### Intent

The teaching and learning of Science helps us achieve our school Mission. It impacts directly on all of the areas – **‘Together we inspire, together we nurture, together we achieve;’** helping pupils to carry out different science enquiries which will in turn help them to answer scientific questions about the world around them. We aim to deliver a high-quality science education, which provides the foundations for understanding the world through age appropriate aspects of the disciplines of biology, chemistry and physics.

Through a stimulating environment, pupils will be encouraged to recognise the power of rational explanation and develop a sense of excitement and curiosity about natural phenomena. Pupils will be encouraged to develop and use a range of working scientifically skills including questioning, explaining what is occurring, predicting how things will behave and analysing cause and effect. Our pupils will be equipped with the scientific knowledge and vocabulary required to understand the uses and implications of science, today and for the future.

### Implementation

Science will be taught termly in a discrete weekly teaching sequence. Each year group will deliver units that are outlined in the science national curriculum programmes of study. The children will learn skills that are progressive and developed as they move up through the school. We will ensure our pupils are able to describe processes and key characteristics using technical vocabulary, accurately and precisely.

Pupils will apply their mathematical knowledge to their understanding of science including collecting, presenting and analysing data. Where possible teachers will wish to use different age-appropriate contexts to maximise their pupils’ engagement and motivation to study science. The skills of working scientifically skills will be embedded within context and, focus on the key features of scientific enquiry such as observing over time, pattern seeking, identifying, classifying and grouping, comparative and fair testing and by carrying out research.

Pupils will have enriching science experiences through whole school science days, open school science events involving parents and where appropriate invitations for scientists to visit children in school.

### Impact

Pupils will have built up sufficient understanding to engage meaningfully in more sophisticated discussions about the nature, processes and methods of science. The impact of teaching is regularly monitored through scrutiny of pupil books and conferencing. By the end of each key stage, pupils are expected to know, apply and understand the matters, skills and processes specified in the relevant programme of study. This will be assessed through end of unit assessments in KS2 and teacher assessments in KS1.