

# The Kite Primary Federation

## Subject Focus - Science



'Together we will flourish and thrive, building on our Christian and local community, for the good of all'.

### Subject

## Science

### Intent

#### National Curriculum

A high-quality science education provides the foundations for understanding the world through the specific disciplines of biology, chemistry and physics. Science has changed our lives and is vital to the world's future prosperity, and all pupils should be taught essential aspects of the knowledge, methods, processes and uses of science. Through building up a body of key foundational knowledge and concepts, pupils should be encouraged to recognise the power of rational explanation and develop a sense of excitement and curiosity about natural phenomena. They should be encouraged to understand how science can be used to explain what is occurring, predict how things will behave, and analyse causes.

Aims:-

The national curriculum for science aims to ensure that all pupils:

- 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 knowledge required to understand the uses and implications of science, today and for the future.

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<b>Subject</b>	<b>Science</b>
<b>Implementation</b>	<p>Schemes of work follow the progression as planned via the National Curriculum.</p> <p>Science is taught in a 2 year rolling cycle because of the mixed age classes within our schools.</p> <p>It is sometimes the main learning theme in the Spring Term and at other times throughout the year it is taught discretely to ensure full coverage of the curriculum.</p> <p>The acquisition of key scientific vocabulary is an integral part of our science lessons. Linked knowledge organisers enable children to learn and retain the important, useful and essential vocabulary and knowledge contained within each topic.</p> <p>The progression of skills for working scientifically, are developed across all the year groups and are set out in a progression map ensuring scientific knowledge and enquiry skills are developed with increasing depth and challenge as children progress through the school. Lessons build on previous learning and children are given many opportunities through questioning, discussion and activities to regularly review their learning and understanding of concepts.</p> <p>A separate progression document for knowledge ensures activities are differentiated so that all children have an appropriate level of support and challenge.</p>
<b>Impact</b>	<p>Progress is measured through a child's ability to know more and remember more. This is measured in different ways in our learning challenges through a range of questioning, activities and discussions.</p> <p>These provide assessment opportunities and outcomes which are recorded internally using our tracking system.</p> <p>Shared use of knowledge organisers ensure all stakeholders have a good understanding of the learning.</p> <p>Children who feel confident in their science knowledge and enquiry skills will be excited by science and show they are children who are curious to learn more and draw vital links to the world in which they live.</p>