



Science Vision & Intent



Hand in hand together we can.....

Respect, Achieve, Enjoy, Believe!

“And so encourage one another and help one another, just as you are now doing.”

1Thessalonians 5.11

Our Curriculum Intent			
<p>RESPECT</p> <p>To encourage and support children at every stage.</p> <p>To support children’s development as people who care about others within our own lives, within our local community and the wider world.</p>	<p>ACHIEVE</p> <p>To champion a progressive curriculum that builds on previous knowledge and skills.</p> <p>To ensure we embed greater fluency, depth and independence.</p> <p>To Identify gaps and build skills.</p> <p>To achieve well and attain good standards based on children’s own starting point.</p>	<p>ENJOY</p> <p>Children learn best when they enjoy school and their learning.</p> <p>To offer a wide-ranging, engaging, exciting and interesting curriculum.</p>	<p>BELIEVE</p> <p>Through our shared Christian values, we can make a difference in our school, our community and the wider world.</p>
<p>VOCABULARY</p> <p>We prioritise the development of children’s vocabulary as a vital tool in learning and understanding the full curriculum.</p>		<p>READING</p> <p>We recognise that reading is the key that unlocks all other learning for children.</p>	

Our Science Vision			
<p>RESPECT</p> <p>To be naturally curious about the world around them.</p> <p>To recognise the importance of science in every aspect of daily life</p> <p>To develop a strong understanding of the world around them whilst acquiring specific skills and knowledge to help them to think scientifically.</p>	<p>ACHIEVE</p> <p>To build a Science curriculum which ensures that prior knowledge, skills and vocabulary are built upon in subsequent year groups.</p> <p>To develop and use a range of working scientifically skills including observations, planning, and investigations.</p> <p>To show resilience when solving problems.</p> <p>To become creative thinkers.</p>	<p>ENJOY</p> <p>We are committed to providing a stimulating, engaging and challenging learning environment.</p> <p>To offer experience days and welcome experts who will enhance the learning experience.</p>	<p>BELIEVE</p> <p>To develop an understanding of the uses and implications of science, today and for the future.</p> <p>To foster a sense of wonder about natural phenomena.</p>
<p>VOCABULARY AND READING</p> <p>To develop a shared Science vocabulary.</p> <p>Scientific language is to be taught and built upon as topics are revisited in different year groups and across key stages.</p> <p>Technical vocabulary will be displayed and used by all learners.</p> <p>To include Science in other areas of learning, such as whole class reading.</p>			



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By the end of EYFS children will know and be able to...

- Show curiosity about objects, events and people
- Question why and how things happen
- Engage in open-ended activity
- Take risks, engage in new experiences and learn by trial and error
- Find ways to solve problems and test their ideas
- Develop ideas of grouping, sequences, cause and effect
- Know about similarities and differences in relation to places, objects, materials and living things
- Comment and ask questions about aspects of their familiar world
- Closely observe what animals, people and vehicles do
- Use senses to explore the world around them
- Make links and notice patterns
- Choose the resources they need for their chosen activities
- Handle equipment and tools effectively
- Create simple representations of events, people and objects
- Talk about changes
- Build up vocabulary that reflects their experiences

By the end of K.S. 1 children will know and be able to ...

Ask Questions

- ask simple questions and recognise that they can be answered in different ways

Measure and Record

- observe closely, using simple equipment
- perform simple tests
- gather and record data to help in answering questions

Conclude

- identify and classify
- use their observations and ideas to suggest answers to questions

By the end of LKS 2 children will know and be able to ...

Ask Questions

- ask relevant questions and use different types of scientific enquiries to answer them
- set up simple practical enquiries, comparative and fair tests

Measure and Record

- make systematic and careful observations and, where appropriate, take accurate measurements using standard units, using a range of equipment
- record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables
- gather, record, classify and present data in a variety of ways

Conclude

- identify differences, similarities or changes related to simple scientific ideas and processes
- report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions
 - use straightforward scientific evidence to answer questions or to support their findings

Evaluate

- use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions



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By the end of UKS 2 children will know and be able to ...

Ask Questions

- plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary

Measure and Record

- take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate
- record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs

Conclude

- identify scientific evidence that has been used to support or refute ideas or arguments
- report and present findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results
- present results in oral and written forms such as displays and other presentations

Evaluate

- use test results to make predictions to set up further comparative and fair tests