



The Little School with the Big Heart

'With God All Things are Possible' Matthew 19:26

Science		
Intent	Implementation	Impact
<p>The Science curriculum at St Thomas' aims to give all children a strong understanding of the world around them, providing them with specific skills and knowledge, and helping them to think scientifically and gain an understanding of scientific processes. It also develops their understanding of the uses and implications of science, today and for the future.</p>	<p>A range of science topics is taught in every year group, linked where appropriate to a Power of Reading book that is the focus for the term (for example, studying State of Matter in Year 4 when the Power of Reading Book is Ice Trap). Scientific enquiry skills are embedded in each topic and these are revisited and developed throughout their time at school. Topics such as Plants or Materials, for example, are taught in Key Stage One and studied again in further detail throughout Key Stage Two. This model allows children to build upon their prior knowledge and increases their enthusiasm for the topics, providing progression in skills and knowledge, and developing mastery.</p>	<p>Our children leave St Thomas' with a well-developed curiosity about the world around them, the skills needed to ask probing scientific questions and to seek appropriate answers to them, and a sense of responsibility for the environment and the role of humanity in helping to preserve it.</p> <p>Our Science curriculum starts the children off on a learning journey that ensures they are ready for their next steps at secondary school with the skills needed to be focused and articulate as scientists. In addition, they leave our school with powerful memories from the wide range of experiences they have encountered here.</p>

<p>They are immersed in scientific vocabulary, which aids children's knowledge and understanding only of the topic they are studying, and of the world around them. We intend to provide all children regardless of ethnic origin, gender, class, aptitude or disability, with a broad and balanced science curriculum.</p> <p>Our intention is to develop them into budding scientists, who care for the world around them and each other. Encourage their curiosity about what they see and experience, and are able to use science to understand how human activity impacts on the planet and how we can carry out our duty of care for God's creation.</p>	<p>All children are encouraged to develop and use a range of skills including observations, planning and investigations, as well as being encouraged to question the world around them and become independent learners in exploring possible answers for their science-based questions. Specialist vocabulary for topics is taught and built up, and effective questioning to communicate ideas is encouraged.</p> <p>ASE PLAN is used as a basis for our planning supplemented with STEM activities.</p>	<p>The impact and measure of this is to ensure children not only acquire the appropriate age related knowledge linked to the science curriculum, but also skills which equip them to progress from their starting points, and within their everyday lives.</p> <p>All children will have:</p> <ul style="list-style-type: none"> • A wider variety of skills linked to both scientific knowledge and understanding, and scientific enquiry/investigative skills. • A richer vocabulary which will enable to articulate their understanding of taught concepts. • High aspirations, which will see them through to further study, work and a successful adult life.
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