



St Lawrence C of E (Aided) Junior School

Curriculum Statement

Science

**Intent:****Why do we teach it? Why do we teach it in this way?**

At St Lawrence, we believe that science has a unique place in the school curriculum as it gives our children the opportunity to experience the magic of creative exploration alongside the rigour of innovative and analytical problem solving. When children study science, they raise questions, use their imagination, take risks, develop perseverance, think critically and learn to work as a team. They are curious, excited, inspired and challenged. In science lessons, we want the children to experience moments of genuine awe and wonder as they learn about the amazing world that we live in.

Implementation:**How do we teach it? What does this look like?**

Scientific enquiry skills are cultivated at every level and the children are given every opportunity to plan and carry out their own investigations. They are encouraged to act and think like real scientists, including how to react when an investigation does not go as predicted. We use a range of physical and digital resources in our Science lessons as well as studying the life and work of previous renowned and influential men and women who have contributed significantly to the scientific world.

Our hands-on approach provides the opportunity to get stuck in. In Year 4, for example, children designed their own fair tests to determine how the volume of sound is affected by the distance from its source. For one group, this meant that one child banged a huge base drum repeatedly while the other measured out the distance in metres across the field until the sound became inaudible. This test needed to be repeated as the distance available was not large enough.

Our science curriculum is mapped to ensure progression through the years and takes into account and builds upon prior learning. We pride ourselves on keeping our curriculum up to date and responsive to the ever-changing picture of the world around us: we make creative and meaningful cross curricular links with geography, PSHE and RE in recognition of the climate emergency.

Knowledge based learning deepens the skills learned as the best scientific understanding is gained when skills and knowledge are taught and experienced in tandem.



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Impact:**By the time children leave St Lawrence they will:**

have a strong grounding in key scientific concepts and disciplines so that they continue to engage and develop their knowledge at secondary school.

They will have developed a positive attitude towards science, maintaining and building on the natural curiosity of their younger years.

Because they are taught to be independent thinkers and are given the tools to know how to problem solve, we expect that St Lawrence children are perfectly equipped to be the scientists of the next generation. They know that the future of the planet is in their hands.