



Swainswick Primary School Science

Vision statement

At Swainswick Primary School, Science inspires curiosity and encourages children to be confident, curious and enthusiastic life-long learners who are aware of their role as global citizens.

<u>Intent</u>	<u>Implement</u>	<u>Impact</u>
<p>Our intent for Science at Swainswick is to provide a high quality science curriculum that encourages children to explore the physical and natural world around them and supports children to find out the answers to their questions by developing key scientific skills and enquiry. This will provide children with the ability to access and engage in the wider world at a deeper level.</p> <p>Where appropriate, our curriculum drivers (well-being, effective communication, creativity and expression and global responsibility) are woven throughout our Science curriculum to enhance learning and promote positive attitudes to learning which reflects the values and skills needed to promote responsibility for life-long learning and success.</p> <p>Through our science units, children develop the skills for scientific enquiry and become confident in conducting their own investigations. This means children can predict what might happen,</p>	<ul style="list-style-type: none"> ● A detailed and comprehensive curriculum, supported by the National Curriculum, Twinkl and PlanBee, with clear progression across all key stages within the strands of Science for skills, knowledge and vocabulary. ● All staff have high expectations of learners. ● Teachers use precise questioning in class to support and extend conceptual understanding. ● Children have access to subject specific terminology and their meanings in order to understand and readily apply to their written, mathematical and verbal communication of their skills. ● Children will use a range of learning experiences, enquiries and resources to develop their knowledge and understanding. ● Opportunities for scientific enquiry are provided at least once per term and children have the opportunity to experience different types of enquiry such as comparative, 	<p>The high quality and comprehensive curriculum is designed to show progression. This impact of this will ensure that all children will have developed scientific enquiry skills and provide a good understanding of the world around them. Children will have</p> <ul style="list-style-type: none"> -An understanding of the impact science has on everyday life and will know the possibilities for careers in science and STEM subjects. -A rich vocabulary and use this to communicate effectively. -the ability to work collaboratively and practically to investigate and experiment and be able to reason scientifically.

<p>analyse results, communicate their understanding using the key terminology, learn to question and discuss real-life issues and understand how science in the past has impacted our understanding of the world today.</p> <p>Our staff deliver high quality teaching and engaging learning experiences. This motivates children to extend their learning and use a secure foundation of knowledge to explain how and why natural phenomena occur. Children will be immersed in scientific vocabulary, which will deepen their understanding of the topic and the world around them.</p> <p>By the time our children leave Swainswick, our children will be confident, curious and enthusiastic life-long learners who are aware of their role as global citizens.</p>	<p>research, observational, pattern seeking, grouping and problem solving.</p> <ul style="list-style-type: none"> ● Children will have regular opportunities for spaced retrieval to reflect on previous learning and cross curricular links will be made wherever possible. ● Children will be able to build on prior knowledge and link ideas together, enabling them to question and become enquiry based learners. ● Attainment will be assessed at the end of each unit through related topic assessment tasks ● Regular events such as Science weeks, or topic homework, which will encourage children to share and extend their learning. ● Differentiated lessons to support and extend children mixed year group classes. ● Staff work closely with the SENCo, teaching assistants, families and individual children to ensure that learning needs are met and the curriculum is accessible to all. ● Regular monitoring by subject leaders and evaluation of learning includes learning walks, book looks and pupil conferencing. 	
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