



Gnosall St Lawrence CE Primary Academy Science Curriculum Statement

Intent	<p>The 2014 National Curriculum for Science aims to ensure that all children:</p> <ul style="list-style-type: none"> 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 skills required to understand the uses and implications of science, today and for the future. <p>At Gnosall St Lawrence, a stimulating and engaging curriculum is taught both through skills-based and knowledge-based objectives. We will ensure the progressive development of scientific skills and acquisition of scientific vocabulary so that every child will ‘shine as lights in the world’ (Philippians 2:16).</p>			
		Scientific Knowledge	Scientific Enquiries	Scientific Skills
	<p>Pupils should be able to describe key processes and characteristics for each unit in common language; they should also be familiar with, and use, technical terminology accurately and precisely.</p>	<p>Children are encouraged to ask their own questions and are given opportunities to use their scientific skills and research to discover the answers. Children work scientifically to research their own scientific enquiries.</p>	<p>In order to build an understanding of the world around them, children carry out scientific enquiries including: observing over time; pattern seeking; identifying, classifying and grouping; comparative and fair testing (controlled investigations); and researching using secondary sources.</p>	<p>Science lessons provide a quality and variety of subject specific language to enable the development of children’s confident and accurate use of scientific vocabulary and their ability to articulate scientific concepts clearly and precisely.</p>
Implementation	<p>Curriculum Approach A clear and comprehensive scheme of work in line with the Early Years Foundation Stage Curriculum Guidance and the National Curriculum intend for children to have the opportunity, wherever possible, to learn through varied systematic investigations, leading to them being equipped for life to ask and answer scientific questions about the world around them.</p>		<p>Clear Progression A spiral curriculum enables children to retain, consolidate and build upon existing understanding. Many topics are revisited across the key stages to enable children to develop a deep understanding and demonstrate progression across specific units.</p>	
	<p>Cross-curricular links Where applicable, science units are linked to other areas of children’s learning. Scientific investigations often include use of maths and English skills and there are opportunities for children to explore scientific knowledge and working scientifically through our weekly Forest School sessions.</p>		<p>Extra-Curricular Opportunities Each year, the school promotes British Science Week and activities celebrating this are completed across the school. Outside agencies have delivered an after-school science club and whole school assemblies.</p>	

Impact	<p>Pupil Voice Through discussion and feedback, children talk enthusiastically about Science lessons. They show curiosity about making links to the world around them and understanding every day processes.</p>
	<p>Evidence in Knowledge Pupils recognise the significance and value of science in the world around them. They can explain key scientific concepts and ideas.</p>
	<p>Evidence in Skills Pupils can use their acquired knowledge to plan, carry out and evaluate investigations- demonstrating an understanding of working scientifically. They can use the vocabulary they have learnt to appreciate and understand a wide range of scientific concepts.</p>
	<p>Breadth and Depth Children show an understanding that science has impacted our lives and that it is vital to the world's future prosperity. Children learn the possibilities for careers in science,</p>