

Overview of Science at Sowe Valley Primary School

Vision (Intent)	Immersion (Our Offer)	Personalising the Curriculum to Sowe Valley (Implementation)	
<p>The successful approach in teaching fun, engaging and high- quality Science lessons at Sowe Valley results in children who are confident and curious Scientists. They enjoy the subject and leave primary school with a secure understanding of the scientific knowledge, skills and enquiry, which they can continue to develop into their secondary school and beyond. Children will have a good understanding of the scientific vocabulary taught within primary school and are able to see themselves as scientists and articulately talk as scientists. They will experience what Science looks like in the world around them and see directly how they can link their learning across their time at Sowe Valley to ensure they are successful Scientists, giving them a secure foundation readying them to take the next stage of their scientific journey into Key Stage 3 and beyond into future careers.</p> <p>Children learn Science in Key Stage 1 and Key Stage 2 as part of the National Curriculum. In the EYFS, it is identified as ‘Understanding of the World’ in one of the seven areas of learning. We offer a broad and balanced Science Curriculum, which enables them to confidently work as Scientists and progressively develop their scientific knowledge and skills. In turn, this fosters their curiosity and have a deeper understanding of the world we live in by exploring and discovering their environment.</p>	<p>Current Practice:</p> <ul style="list-style-type: none"> • Staff will use Grammarsaurus to support planning and resourcing of science units to support with consistency and ambitious content that is appropriately pitched for year groups. • Every child will take part in a weekly Science lesson (apart from in EYFS where it is woven into the continuous provision). This maybe more if the Science unit is the driver of the theme e.g. Space. • Opportunities to learn through educational visits and visitors to enrich the curriculum and provide them with their cultural capital entitlement. • Units of work / lessons are adapted to meet the needs of particular cohorts or adjusted based on the environment around them e.g. Starting with Spring in Year 1 due to when it falls in the academic year so outdoor learning opportunities can be seized. <p>Further Development:</p> <ul style="list-style-type: none"> • Children will take part in a Science Week in school • Year 6 children will have opportunities to explore science in the local secondary school and attend workshops to see what careers in STEM workplaces entails so they can believe that they could one day work in this field. 	<p>Reception</p>	<p>Children explore Science through their knowledge and Understanding of the World</p> <p>Enrichment: Visit to Ash End Farm (Reception)</p> <p>Living Eggs (chicks)</p>
<p>The curriculum is mapped progressively across the school to ensure that children are able to build on previous learning, acquire new knowledge and skills and know how this will help them in future learning. At Sowe Valley Primary School we use the Grammarsaurus Science Scheme to support with the planning and resourcing of the science units. Opportunities to revisit previous learning, when learning new units, support children knowing more and</p>		<p>Year 1</p>	<p>Year 1’s content : Animals Including Humans, Materials, Seasonal Change*, Plants*</p> <p>Year 1 will learn about seasonal change and plants in the Spring so they are able to observe the changes in the season themselves through outdoor learning opportunities and plants seeds themselves.</p> <p>Enrichment: Visit to Brandon Marsh Nature Reserve</p>
		<p>Year 2</p>	<p>Year 2’s content : Animals Including Humans, Materials, Plants, Living Things and Their Habitats – Plants,</p> <p>Year 2 will focus on Plants and living things in the Spring / Summer so they can observe these changes themselves as part of their enquiry.</p> <p>Enrichment: growing their own plants and maintaining plants around school site.</p>
		<p>Year 3</p>	<p>Year 3’s content: Forces and Magnets ,Animals Including Humans (bones), Rocks*, Light, Plants</p> <p>Year 3 will learn about rocks during the Spring term when they are learning about volcanoes and earthquakes in their theme. There are pertinent links across Geography and Science which support the children’s depth of understanding.</p> <p>Enrichment: growing their own plants and maintaining plants around school site.</p>
		<p>Year 4</p>	<p>Year 4’s content : Electricity Sound, Living Things and Their Habitats* (changing environments, State of Matter* (water cycle), Animals Including Humans</p> <p>Year 4 will learn about State of Matter in the Spring term when they are learning about mountains and rivers in their Geography theme work. This lends itself to a pertinent link to deepen the children’s understanding.</p> <p>Enrichment: Visit to Habitat Survival Trust</p>

<p>remembering more. Science is broken down into further strands of Biology, Chemistry and Physics. Scientific enquiry is woven within the curriculum with lots of opportunities for practical learning. It encourages children to generate their own further questions and lines of enquiry. High importance is placed on scientific vocabulary and children using it confidently in the correct context to 'talk like an expert'.</p> <p>Where appropriate, we have used the Science units to become engaging 'Themes' within some year groups. This gives children the opportunity to really delve deeper into aspects of Science and explore their understanding in greater depth.</p>		<p>Year 5</p>	<p>Year 5's content: <i>Properties and Changes of Materials, Earth and Space*</i>, <i>Forces and Magnets, Living Things and Their Habitats Animals Including Humans</i></p> <p>Earth and Space will be a theme for Year 5 in the Spring term.</p> <p>This will allow children the opportunity to learn about more abstract concepts in greater depth, supporting their understanding of the learning.</p> <p>Enrichment: Visit to Leicester Space Centre</p>
		<p>Year 6</p>	<p>Year 6's content: <i>Animals Including Humans Light, Electricity, Evolution and Inheritance*</i> <i>Living Things and Their Habitats* (classification),</i></p> <p>Year 6 will learn about Evaluation and Inheritance as well as Living Things and their Habitats in the summer term alongside their Geography theme of 'South America' as there are pertinent links that can be made across Geography and Science that can deepen the children's experiences.</p> <p>Enrichment: Rainforest visitor into school</p>