



## Edmondsley Primary School

Subject: Science		
Intent	Implementation	Impact
<p>At Edmondsley Primary School, we want all pupils to enjoy exploring science and develop a broad scientific knowledge as a basis for future learning. Our Science Curriculum provides a coherent framework, with pupils developing their learning in Biology, Chemistry and Physics. It begins with pupils learning rooted in their own lived experiences of Science and develops into a deeper understanding of more complex concepts.</p> <p><u>We encourage and foster:</u></p> <p>Critical thinking, asking questions and exploring how answers might be discovered.</p> <p>First-hand and practical experience of all science concepts covered in each unit of work, wherever possible.</p> <p>Growing independence in following the scientific method and conducting scientific investigations.</p> <p>Secure skills in working scientifically, alongside embedded subject knowledge.</p>	<p><u>Science in the Early Years</u></p> <p>Within our Early Years Curriculum, there is a strong focus on the language-rich environment and understanding our children's own experiences. This includes beginning to use scientific language, exploring 'everyday science' experiences, developing a sense of enquiry and explaining in terms of the foundations of scientific knowledge. Pupils are given opportunity to ask and answer questions through practical exploration.</p> <p><u>Science in Key Stage 1 and 2</u></p> <p>Each unit of learning begins with an enquiry question, which can be answered by the completion of the unit through applying the knowledge and understanding gained. Units build sequentially through linking areas of Science and developing previous knowledge. Science is taught in weekly lessons for a six-week unit (with some 12-week units which covers a whole term of learning in Year 1 and 2). Retrieval of knowledge is encouraged and planned into each lesson.</p>	<p><u>Assessment</u></p> <p>The evaluation of what knowledge, skills and understanding the pupils have gained against expectations within a unit is completed termly by Key Stage 1 and 2 teachers. Each teacher shares their assessment with the Science lead. Discussions around the next steps in learning then takes place and is planned for. The Early Years team complete ongoing assessments which culminate in an end of year assessment against Early Learning Goals.</p> <p><u>Curriculum Impacts:</u></p> <ul style="list-style-type: none"> <li>• Pupils enjoy Science lessons</li> <li>• Pupils of all abilities succeed in Science lessons because work is matched to their abilities.</li> <li>• Pupils use accurate and correct scientific vocabulary</li> <li>• Pupils gain good subject knowledge across a wide range of units to provide a solid base for future learning</li> <li>• Pupils leave primary school being able to ask scientific questions, suggest how answers can be found, work scientifically</li> </ul>

<p>The ability to observe closely, investigate, research and then apply this knowledge and draw conclusions.</p> <p>An excitement for and love of Science.</p> <p>Pupils pursuing their own interests within a unit of work.</p> <p>Using our school outdoor environment to facilitate relevant and contextualised Science learning.</p> <p>Learning about ourselves and our environment to help our pupils understand how to live healthy lifestyles and be environmentally aware.</p>	<p>Children are supported to develop their scientific investigation skills by following a process when experimenting. This investigation process is planned around a progressive format, ensuring that pupils develop independence as well as key scientific skills.</p> <p>Scientific vocabulary is displayed in every classroom to support each unit of work and teachers will encourage correct terminology to be used by pupils, addressing any misconceptions.</p> <p>A variety of teaching methods are employed to help all children (EYFS, KS1 and KS2) to engage with and be excited by Science, including use of digital resources, videos, online research, hands-on use of equipment and artefacts (e.g. fossils, electric circuits). Edmondsley's varied outdoor environment provides a fantastic opportunity for pupils to learn both Science curriculum content and develop their environmental awareness as a whole.</p> <p>Visits are also planned to support and enhance learning in the classroom and to inspire fascination and further enquiry of Science. These include visits to local woodland areas and Durham Botanical Gardens. As part of wider science experiences, pupils will take part in activities during our Science Week celebrations,</p>	<p>to explore their ideas, research scientific theory, apply scientific knowledge and draw conclusions</p> <ul style="list-style-type: none"> <li>• Pupils relate their learning to everyday contexts and their own experiences as well as previous learning within Science.</li> <li>• Pupils will leave Edmondsley with a secure understanding of how to lead a healthy life as well as an environmental awareness to care for the world around them.</li> </ul>
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