



Acre Hall Primary School- Science Intent, Implementation, Impact



Intent	<p>At Acre Hall Primary school, our children are SCIENTISTS! Our intent is to give every child a broad and balanced Science curriculum which enables them to confidently explore and discover what is around them, so that they have a deeper understanding and respect for the world we live in. Our curriculum will enable children to become enquiry based learners collaborating through researching, investigating and evaluating experiences.</p> <p>We want our children to love science and to remember their science lessons in our school, to cherish these memories and embrace the scientific opportunities they are presented with! To achieve this we need to deliver exciting, practical hands on experiences that encourage curiosity and questioning. Our aim is that these stimulating and challenging experiences, including those planned in Science week, help every child secure and extend their scientific knowledge and vocabulary, as well as promoting a love and thirst for learning.</p> <p>At Acre Hall, we have a coherently planned and sequenced curriculum which has been carefully designed by our science leaders, with the need of every child at the centre of what we do. It will provide opportunities for the critical evaluation of evidence and rational explanation of scientific phenomena as well as opportunity to apply their mathematical knowledge to their understanding of science, including collecting, presenting and analysing data. We want to equip our children with not only the minimum statutory requirements of the science National Curriculum but to prepare them for the opportunities, responsibilities and experiences of later life.</p> <p>Our curriculum promotes our school drivers wherever possible and this is mapped on our LTP.</p>
Implementation	<p>At Acre Hall, Science topics are taught within each year group in accordance with the National Curriculum.</p> <ul style="list-style-type: none">• Topics are blocked to allow children to focus on developing their knowledge and skills, studying each topic in depth.• Every year group will build upon the learning from prior year groups, topics are repeated and each year group from Year One upwards will look at the topic 'Animals including Humans'. This will develop the children's depth of understanding and progression of skills.• Teachers promote enjoyment and foster interest of the scientific disciplines; Biology, Chemistry and Physics. We also take part in whole school science and space weeks.• Children explore, question, predict, plan, carry out investigations and observations as well as conclude their findings. We ensure progression is statistics through each year group.• Children present their findings and learning using science specific language, observations and diagrams.• At the start of each topic children will review previous learning and will have the opportunity to share what they already know about a current topic.• Children are given a topic glossary at the start of each topic with science vocabulary and a knowledge organiser. These are used as part of an assessment to support children with their acquisition of language and are used as a reference document.• Effective CPD and standardisation opportunities are available to staff to ensure high levels of confidence and knowledge are maintained.• Effective use of education visits and visitors are planned, to enrich and enhance the pupil's learning experiences within the Science curriculum.• Teachers use highly effective assessment for learning in each lesson to ensure misconceptions are highlighted and addressed.• Effective modelling by teachers ensures that children are able to achieve their learning intention, with misconceptions addressed within it.• Through using a range of assessment tools, differentiation is facilitated by teachers, to ensure that each pupil can access the Science curriculum.



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	<ul style="list-style-type: none"> Pupils are regularly given the opportunity for self or peer assessment, which will then be used to inform planning, preparation, differentiation and address misconceptions within that lesson, or for the next lesson. Cross-curricular links are planned for, with other subjects such as Maths, English and Computing.
Impact	<p>The impact of this curriculum design will lead to excellent progress over time, across key stages, relative to a child's individual starting point and their progression of skills. Children will be expected to leave Acre Hall reaching at least age related expectations for Science. Through experiments, workshops, whole school topic weeks, trips and interactions with experts our Science curriculum will lead pupils to be enthusiastic Science learners and understand that science has changed our lives and that it is vital to the world's future prosperity. This will be evidenced in a range of ways, including pupil voice, children's work and ultimately their enjoyment for science.</p>

