



William Shrewsbury Science Curriculum Intent 2019-20

If you don't want to learn, no one can make you. If you are determined to learn, no one can stop you.

Intent	Implementation	Impact
<p>To develop a deep working knowledge and understanding of the topics covered in the Science curriculum.</p>	<ul style="list-style-type: none"> • Ensure that key knowledge and skills to be learnt are clear in curriculum planning. • Skills and Knowledge learning intentions are shared at the start of every lesson. • Children will have access to a summary of these on Topic mats. • Ensure that children have sufficient practice through a variety of engaging activities to develop a broad range of knowledge and skills. • Use classroom display to reinforce these with information and working walls. 	<ul style="list-style-type: none"> • Children will be able to talk about key knowledge and vocabulary with understanding. • They will be able to apply this knowledge to problem solving situations. • Answer and ask higher-level questions.
<p>To give children the practical experiences and knowledge of the physical world, of their own bodies and of living things around us in order to enrich their experience and deepen their knowledge and understanding.</p>	<ul style="list-style-type: none"> • An exciting and kinesthetic curriculum that allows children to learn through doing. • Visits to museums • Continually making links to the 'real world' and providing opportunities to explore the science in e.g. baking, art and craft, outdoor learning. 	<ul style="list-style-type: none"> • Knowledge is applied to real life and situations/experiences. • Children understand that Science is key to life and everything around us. • An opportunity to see Science in action out of the classroom.



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	<ul style="list-style-type: none"> ● Build links with the community and beyond. ● Ensure that key facts are embedded in these activities. 	
<p>To develop an enquiring mind and confidence to raise and ask their own questions and the skills to be able to find out for themselves.</p>	<ul style="list-style-type: none"> ● Give time during every lesson for the children to ask their own questions and share their thoughts and opinions. ● Provide opportunities to simply explore materials, areas, the internet and raise questions and suggestions. ● Develop a Growth Mindset approach within the classroom. 	<ul style="list-style-type: none"> ● Learners who can challenge ideas they disagree with, not just in Science. ● Learners that can lead their own learning and investigate their own ideas. ● Children learn from the misconceptions.
<p>To develop the scientific skills needed for an investigation.</p>	<ul style="list-style-type: none"> ● Teach and give opportunities for prediction, fair testing, gathering and presenting results, conclusions and evaluations (this does not always need to be written to be recorded) 	<ul style="list-style-type: none"> ● Improves mathematical skills. ● Enables children find causal relationships. ● Enables children to discover new facts and understanding of the world.
<p>To develop critical thinking skills through debate and challenge with others, effectively develop self-awareness, enable</p>	<ul style="list-style-type: none"> ● Encourage the children to ask and answer questions 	<ul style="list-style-type: none"> ● Confident and articulate speaking skills.



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<p>the children to learn in teams, communicate effectively and cope with challenges.</p>	<ul style="list-style-type: none"> • Opportunity to work independently, collaboratively, present findings • The use of concept cartoons to encourage the children to challenge 	<ul style="list-style-type: none"> • Children who can use evidence to support their ideas/thoughts. • Children gain new learning.
<p>To inspire the children to consider a future career in the world of Science.</p>	<ul style="list-style-type: none"> • Teaching about famous scientists and the impact they have made on our world • Opportunities to take part in whole school science competitions to raise the profile of Science and celebrate it • Annual Science Weeks • Meeting and talking to scientists about their work during aspirations week. 	<ul style="list-style-type: none"> • Understanding of breakthroughs in Science in the past and how they impact our world now. • Enthusiasm for Science, a reason for learning this subject. • Encourage more girls to choose this subject area as something to pursue in the future. • The children will be inspired and will want to be immersed within it.