

Science at Shelton Junior School

Our Science curriculum aims to encourage all pupils to develop a sense of excitement and curiosity about the world around them. We will ensure they gain Scientific knowledge and conceptual understanding through the study of Biology, Chemistry and Physics. Throughout our school, children are encouraged to develop and use a range of working scientifically skills including questioning, researching and observing. We want our children to have a broad vocabulary so Scientific language is to be taught and built upon as topics are revisited in different year groups. We intend to provide all children regardless of ethnic origin, gender, class or disability with a broad and balanced Science curriculum to increase their Science capital.



<p>At Shelton Junior School, our POWER curriculum gives us the</p> <p>Power to achieve our dreams, and the</p> <p>Oracy skills needed to be successful.</p> <p>We are kind to each other and care for our school, community & planet.</p> <p>Everyone is equal and treated with respect.</p> <p>Reading for knowledge and pleasure gives us the POWER to succeed!</p>				<p>Our Shelton Superpowers underpin all aspects of school life as we seek to nurture these qualities in all children in our care:</p> <p>Perseverer - resilience</p> <p>Reflector - reflectiveness</p> <p>Investigator - curiosity</p> <p>Thinker - concentration</p> <p>Collaborator - collaboration</p>					
<p>Power to achieve our dreams</p>	<p>Oracy skills</p>	<p>We are kind and caring</p>	<p>Everyone is equal</p>	<p>Reading</p>					
<ul style="list-style-type: none"> ◆ Science fair to showcase learning ◆ Holiday project homework to engage parents and pupils ◆ Trips to sites of Scientific interest ◆ Visitors linked to Scientific learning ◆ 'Inspirational Figures' day— Scientific figures whose critical thinking skills and passion for innovation have changed the world 	<ul style="list-style-type: none"> ◆ Exploration of 'sticky' words for each new topic ◆ RAG-rating and discussion around vocabulary ◆ 'Learning Journey' working walls focused on vocabulary and linked to the term's 'Big Question' ◆ Opportunities to support the writing curriculum ◆ Small group and class discussions 	<ul style="list-style-type: none"> ◆ Chances for children to collaborate during Scientific enquiries, practising their team work skills. ◆ Scientific discussions and debates of key issues teaches children to listen and understand the viewpoint of others 	<ul style="list-style-type: none"> ◆ All children have access to the Science National Curriculum ◆ In-class and TA support ◆ Vocabulary pre-teaching ◆ Post teaching to consolidate learning ◆ Celebration of STEM figures from a range of backgrounds to increase Science capital 	<ul style="list-style-type: none"> ◆ Reading as a reader/writer ◆ Vocabulary jotters for every child ◆ Knowledge organisers and retrieval practice ◆ Taught using high-quality, age-appropriate sources, texts and extracts ◆ STEM-themed, high quality texts 					
<p>Scientific Concepts</p> <ul style="list-style-type: none"> ◆ Physics ◆ Chemistry ◆ Biology 		<p>Working Scientifically</p> <ul style="list-style-type: none"> ◆ Asking questions ◆ Making predictions ◆ Setting up tests ◆ Observing and measuring ◆ Recording data ◆ Interpreting and communicating results ◆ Evaluating 				<p>Scientific Content</p> <ul style="list-style-type: none"> • Plants • Animals Including humans • Living things and their habitats • Rocks • Light • Forces and magnets 		<ul style="list-style-type: none"> • States of matter • Sound • Electricity • Properties of materials • Earth and space • Evolution 	