



Science

<p>Intent</p> <p><i>Padiham Green is a Christian School where everyone is valued. We want our children to LOVE, to LEARN and to SHINE on their journey.</i></p>	<p>Implementation</p> <p><i>As a school family we set good examples for all our learners. Using gospel values, we guide everyone along the right path.</i></p>	<p>Impact</p> <p><i>'Life in all its fullness' (John 10:10)</i></p>
<ul style="list-style-type: none"> • To allow all pupils to be naturally curious and inquisitive. • To develop scientific knowledge and conceptual understanding in all areas of the science curriculum. • To develop awareness of climate and sustainability challenges within their environment. • To give children the tools to understand the uses and implications of science today and for the future. • Our personalised curriculum will allow learners to use equipment, carry out experiments, build arguments, explain concepts and continue to ask questions building on their curiosity about their surroundings. • Give our learners the opportunity to ask their own questions and through various opportunities, research and discover answers for themselves. 	<ul style="list-style-type: none"> • We maintain a high level of up to date subject knowledge through regular training and professional development both in school and through external agencies. • Knowledge organisers have been developed to cover each topic which set out the key skills, facts, key questions, vocabulary and experiences which will be covered • To utilise outdoor learning opportunities to develop greater awareness of the environment and how children can prevent climate changes/sustainability. • We tailor lessons to all learners through quality first teaching, interesting and engaging resources and a variety of teaching strategies. • We use assessment of learning to ensure development of skills across all year groups. • We use and regularly refer to key topic related vocabulary and encourage the children to use it in each lesson. • We use a variety of resources and practical equipment to instil a love for Science learning. • We encourage children to investigate and find answers to scientific problems independently. • We encourage children to ask questions to deepen their scientific knowledge and use a range of questioning to further encourage their learning. 	<ul style="list-style-type: none"> • Children enjoy and are enthusiastic about learning science in school. • Children will enjoy outdoor learning and develop a desire to become 'Greener' • Children will become future teachers of how to improve our environment. • There is a clear progression of work and expectations across the age range in our school. • Children's work shows a clear progression of skills and range of topics to ensure coverage of the whole curriculum. • Children are encouraged and able to select and recommend suitable equipment and recording strategies to complete an investigation, developing independence in their own learning. • Teacher assessments are regularly monitored and moderated to ensure good progression for all pupils. • Standards in Science are good and in line with other subjects. • The SLT and governing body are kept up to date with progression and developments in science through subject reports and subject action plans.