

## Curriculum Statement for Science

<p style="text-align: center;"><b>Intent</b></p>	<p>Our overarching aim is to equip pupils with the key /core knowledge that they can build on through their future learning.</p> <p>At Brookfield's we aim for all pupils to be confident in their learning and to nurture an inquisitive nature as they journey through school and beyond.</p> <p>Our Science curriculum encourages pupils to show interest and curiosity in their environment and universe and develop an understanding of the world around them whilst also instilling respect for living and non-living things. We believe our curriculum encompasses the acquisition of knowledge, concepts, skills and positive attitudes that pupils require in order to achieve these aims.</p> <p>Throughout their learning, we aim to ensure pupils acquire and develop the key knowledge that has been identified within each unit and across each year group, as well as applying scientific skills in real life contexts.</p>
<p style="text-align: center;"><b>implementation</b></p>	<p>The teaching and learning of knowledge is carefully planned, sequenced and delivered to allow pupils maximum opportunity to learn, consolidate and expand their understanding. Teaching is of a very high quality and is informed by rigorous assessment practices whilst maximising available resources and opportunities.</p> <p>The planning of lessons takes into account the pupils' levels of need alongside their preferred learning style.</p> <p>Within the <b>Explorers pathway</b> (My World &amp; My Community, Myself &amp; My Body) pupils learn through play and sensory investigation. Through the consistent use of scientific language and symbols they will begin to generalise skills across objects and apply these skills in new circumstances. Units of work in KS1 include:</p> <ul style="list-style-type: none"> <li>• Ourselves</li> <li>• Plants</li> <li>• Health and growth</li> <li>• Light and dark</li> <li>• Teeth</li> </ul> <p>Pupils will move from exploring, investigating and discovering through science based sensory activities.</p> <p>Learners on our <b>Adventurers pathway</b> build on previous knowledge and continue to consolidate previously taught Science based skills.</p> <p>Pupils on the Adventurers pathway will follow the Science units of work for Biology, Chemistry and Physics.</p> <p>Staff develop pupils' understanding of their surrounding through ongoing opportunities to learn through extra-curricular activities, educational visits, visitors to school and Learning Outside the Classroom to complement and broaden the curriculum. Our resources continue to develop skills and meet the needs of all pupils allowing them to experience practical, engaging and motivating scientific experiences.</p>

<b>Impact</b>	<p>As a result of the well-considered curriculum, high quality teaching and assessment and individualised approaches pupils achieve exceptionally well. Pupils develop knowledge and skills at a level appropriate to their development alongside all of the other qualities that we strive for all children to learn whilst on their learning journey at Brookfields.</p> <p>Our Science curriculum improves pupils understanding of concepts through motivating sessions. Teaching and learning approaches are fun and engaging, providing high-quality science education for all pupils. Our engagement with the local environment ensures that pupils learn through varied and first-hand experiences of the world around them to develop a foundation for lifelong learning.</p> <p>Summative assessments take place throughout the year and teachers record pupils' progress. Pupils accessing the Explorers pathway are assessed using Engagement Steps (BSquared) within the four areas of learning.</p> <p>Pupils on the Adventurers pathway are assessed using Progression Steps (BSquared) where Science is assessed as a discreet subject within Biology, Chemistry &amp; Physics.</p> <p>Teachers use information to inform future lessons; ensuring pupils are supported and challenged appropriately. This data is analysed on a termly basis to inform and address any trends or gaps in attainment.</p>
---------------	--