

# CURRICULUM SUBJECT OVERVIEW - MATHEMATICS



<p style="text-align: center;"><b>Our School Vision</b></p> <p>The children of The Hawthorns are at the heart of all that we do. As a whole school community, we nurture and challenge our children within a caring environment, so they grow both personally and academically.</p> <p>We are passionate about developing the whole child; encouraging them to have a growth mindset, believe in themselves, aspire to achieve their best and become resilient lifelong learners.</p> <p>We uphold a strong sense of belonging by valuing our children's individuality and celebrating diversity to ensure all our children thrive.</p>	<p style="text-align: center;"><b>Subject Intent</b></p> <p>At The Hawthorns, we aim to develop all pupils' mathematical thinking, fluency and reasoning skills. We provide a curriculum which caters for the needs of all individuals and sets them up with the necessary skills and knowledge for them to become confident, flexible mathematicians. Using the mastery approach, we incorporate sustained levels of challenge and support through varied and high-quality activities with a focus on fluency, reasoning and problem solving. Our approach of using concrete, pictorial and abstract form helps progression for all learners.</p>
<p style="text-align: center;"><b>Our Curriculum Vision</b></p> <p>At The Hawthorns Primary School, we aim to provide a unique and creative learning experience with high aspirations for all our pupils.</p> <p>Our exciting and innovative curriculum is tailored to inspire and challenge each individual child so they develop a passion for learning and aspire to be successful.</p> <p>The curriculum offers a wealth of knowledge through real life experiences to foster a spirit of curiosity and purpose, encouraging children to make connections and equipping them with the skills needed for their futures.</p>	
<p style="text-align: center;"><b>Cultural Capital</b></p> <p style="text-align: center;"><b>The essential knowledge that children need to be educated citizens</b></p> <p>The maths curriculum at the Hawthorns ensures that our children receive a broad understanding of maths in real life contexts. In EYFS, the children explore Maths through their continuous provision approach by incorporating the use of role play for example shops, cafes and doctor surgeries. Children handle money and measure using standard and non-standard units and explore capacity using a variety of containers. Mathematical language is used in discussions with the children. In Key Stage 1, the children continue to build upon their knowledge and application of these skills and start to record data through numerical and pictorial representations. Estimation is introduced alongside their own experiences. As children progress into Key Stage 2, they experience a variety of scaled resources to develop accuracy in measuring and estimation. The teaching of time is taught both implicitly and explicitly to ensure they are able to use and apply the knowledge in their everyday life. We aim for problem solving activities to be linked to real life contexts and encourage our families to explore mathematical contexts in their daily lives. Statistical skills are also taught through science and geography in order to allow the children to apply their skills across the curriculum. Children in Upper Key Stage 2 are offered opportunities to handle money, give change and calculate totals at the Christmas fair. They are taught that maths is everywhere including nature (spirals – Fibonacci), how it is used in science and technology (binary numbers) and in history by investigating famous mathematicians; for example, Pythagoras.</p>	
<p style="text-align: center;"><b>IMPLEMENTATION</b></p> <p>We aim for maths to be taught using the maths mastery approach across all year groups incorporating support and challenges for all. Concrete resources are used alongside a variety of pictorial representations before they experience the abstract form. Questioning is used to deepen understanding and develop mathematical connections and fluency. Stem sentences allow children to verbalise and explain their thinking. Working walls are used to support, extend and celebrate the children's learning journey.</p>	<p style="text-align: center;"><b>IMPACT</b></p> <ol style="list-style-type: none"> <li>1. Children leave The Hawthorns Primary School as confident mathematicians.</li> <li>2. Children are able to make connections with previous learning and build a coherent picture of how mathematics is used in everyday situations.</li> <li>3. Children are excited and inspired to further their mathematical knowledge. They develop a strong curiosity and ask questions to further their understanding.</li> </ol>