

Curriculum Implementation

Maths

"Pure mathematics is, in its way, the poetry of logical ideas." – Albert Einstein

<p>Why should children learn this subject?</p>	<p>Mathematics is a creative and highly inter-connected discipline that has been developed over centuries, providing the solution to some of history's most intriguing problems. It is essential to everyday life, critical to science, technology and engineering, and necessary for financial literacy and most forms of employment. A high-quality mathematics education therefore provides a foundation for understanding the world, the ability to reason mathematically, an appreciation of the beauty and power of mathematics, and a sense of enjoyment and curiosity about the subject.</p>
<p>What will children learn to do in this subject?</p>	<p>The national curriculum for Mathematics aims to ensure that all pupils:</p> <ul style="list-style-type: none"> • Become fluent in the fundamentals of mathematics, including through varied and frequent practice with increasingly complex problems over time, so that pupils develop conceptual understanding and the ability to recall and apply knowledge rapidly and accurately. • Reason mathematically by following a line of enquiry, conjecturing relationships and generalisations, and developing an argument, justification or proof using mathematical language. • Can solve problems by applying their mathematics to a variety of routine and non-routine problems with increasing sophistication, including breaking down problems into a series of simpler steps and persevering in seeking solutions.
<p>How will we inspire them?</p>	<ul style="list-style-type: none"> • Provide trips and school visitors which educate children about using maths in different jobs. • Use interactive and physical activities throughout the school day to engage pupils with all learning styles. • Ensure that children know how each maths topic links to 'every-day life'. • Run school maths events, such as World Maths Day. • Provide opportunities for pupils to compete in maths competitions and promote practise. • Link maths to other subjects to demonstrate the importance of the subject • Provide interesting and challenging lessons, which include opportunities to reason and problem solve.
<p>Local and Cultural Links</p>	<p>World Maths Day Wirral Maths Competition at Wirral Grammar School for Boys STEM workshops Lady Lever Hulme Art Gallery</p>