


Maths Intent, Implementation & Impact

Maths	Curriculum Intent	Maths Rationale
	<p>Our curriculum provides a broad, balanced and enquiry based curriculum that meets the needs of all children. Our curriculum enables children to acquire the knowledge and skills to develop a cultural awareness to fully prepare them for the next stage of their education and for later life. Our Curriculum raises expectations for independence and ownership of learning. Our Curriculum provides experiences and opportunities for children to develop as independent, confident and successful learners, with high aspirations. Our Curriculum provides opportunities to explore new skills and experiences to help to nurture resilience, curiosity and creativity. Our curriculum is further enhanced by our commitment to a values-based education, including British Values, and through this, we provide learning experiences which promote confident, self-motivated pupils who are eager for lifelong learning. Our Curriculum develops pupils' horizons through a range of Spiritual, Moral, Social and Cultural opportunities which help to celebrate and embrace diversity as well as celebrating their own heritage. Our Curriculum is linked to our community and the wider society and develops our children as responsible citizens. Our curriculum is rewarding for the learner and purposeful.</p>	<p>We are committed to provide the very best maths teaching so we can make a difference to every pupil. We value the importance of teaching approaches that enable our pupils to secure a deep understanding of mathematical concepts along with a varied fluency in applying them.</p> <p>Our Teaching for Mastery Curriculum is influenced and inspired by leading maths researchers, White Rose Maths. At Hellingly, our vision is to 'Reach for the Stars'. Our teachers strive to deliver both depth and breadth and ensure that our pupils grasp the fundamental concepts that unlock the door to mastery. Our pupils are actively involved in the learning process as we want all of them to develop a love of maths, along with a 'can do' attitude on their lifelong learning journey. Along with our core values, this will enable them to persevere with the determination to achieve their full potential when faced with a challenge and have a positive attitude to making mistakes and seeking solutions. At Hellingly, we strive to ensure that learning in maths is a rewarding and enjoyable experience.</p>
Maths Intent	Maths Implementation	Maths Impact

<p>In maths at Hellingly, our overall, long-term aim is to produce a connected curriculum accessible to all pupils, in all classes. We aim to support pupils becoming fluent in the fundamentals of mathematics, namely, be able to calculate, reason and problem solve. These skills are crucial life skills for our pupils and will enable them to be successful adults in the work place.</p> <p>In order to gain confidence in these life skills pupils MUST be able to visualise the maths and we support them to do this through the CPA approach. This hands on learning approach helps children to understand mathematical concepts and make links and connections with different representations of the same thing.</p> <p>We also place emphasis on mathematical language and questioning so pupils have the tools to discuss the mathematics they are doing. As well as being fluent mathematicians, we want pupils to love maths and experiment with their ideas through a series of mathematical challenges - developing and nurturing their deeper thinking and reasoning skills.</p>	<p>At Hellingly, lessons are broken down into small connected steps that gradually unfold the concept, providing access for all children and leading to a generalisation of the concept and the ability to apply the concept to a range of contexts.</p> <p>Through the use of concrete and pictorial approaches, maths is accessible to all children, enabling them to see patterns and make connections. These experiences develop the pupils confidence in mathematical understanding so they see the relevance of mathematics in the outside world. The children are given opportunities to communicate through discussion with their talk partners, following the chain of reasoning and making connections. This enables them to further develop their conceptual understanding and verbal reasoning. This also ensures that pupils have an in-depth knowledge of mathematical vocabulary and its meaning. The children are also able to make links within maths and other areas of the curriculum.</p> <p>In Early years, children explore maths through practical activities in their indoor and outdoor learning environments.</p> <p>Quick and efficient recall of number facts is important to ensure the children are able to confidently move between different contexts and representations of mathematics. Fluency facts are practised daily using the counting stick along with Numbots and Times Table Rock Stars being used as part of their home learning.</p>	<p>At Hellingly, children will learn through fun and practical maths lessons that promote a love of mathematical learning.</p> <p>Outcomes in the children's maths journals evidence a broad and balanced maths curriculum that enables children to build on their previous learning and provide opportunities for deeper thinking when using and applying their skills when reasoning and problem solving.</p> <p>Children complete end of block assessment tasks that demonstrate the progress and knowledge that the children have gained throughout the block.</p> <p>This all enables our children, working at mastery to:</p> <ul style="list-style-type: none"> - Describe in his/her own words. - Represent their learning in a variety of ways - concrete, pictorial and abstract. - Explain it to someone else. - Make up his/her own examples. - Make links and see connections between facts, ideas and patterns etc. - Recognise it in a new context. <p>Children working at mastery with greater depth can:</p> <ul style="list-style-type: none"> - Solve problems of greater complexity (where the approach is not immediately obvious) and they can demonstrate creatively in their approach.
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	<p>The children are exposed to different representations of the concept being taught to ensure that they have a sound understanding. This then enables the children to use and apply what they have learnt in a variety of ways, in a range of contexts.</p> <p>The children complete end of block assessments, enabling the teacher to identify any gaps in their learning and plan interventions appropriately.</p> <p>As well as being taught discreetly, maths is also linked into our Enquiry topics as much as possible.</p>	<ul style="list-style-type: none">- Independently explore and investigate mathematical contexts and structures.- Communicate results clearly and systematically.- Explain and generalise about mathematics.
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