



Statement of Intent for Maths at Hogarth Primary School

Subject Leaders: Clare Connor and Juliet Carey

Intent

Maths is a core curriculum subject and the reasons for teaching it and embedding it within all teaching across the curriculum can best be summed up by 'The Purpose of Study' section of the National Curriculum document 2014.

'Mathematics is a creative and highly interconnected 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.'

At Hogarth Primary School, we want pupils to –

- Become fluent in the fundamentals of maths so that they develop conceptual understanding and the ability to recall and apply knowledge rapidly and accurately.
- To be able to reason and problem solve as these skills support deep and sustainable learning and allow pupils to make connections in maths.
- To use mathematical vocabulary.
- To develop resilience by embracing maths challenges.
- To reflect on their own mistakes which deepens their learning.
- To engage with the subject by having fun.
- To understand the purpose of maths lessons.
- Be ready for the next step in their maths journey, whether it's the next academic year group or next key stage.

Maths is an integral aspect of everyday life and we will ensure that children develop a positive and enthusiastic attitude towards maths that will stay with them, providing a foundation for their understanding of the world.

Implementation

In short, we teach the learning objectives set out within the National Curriculum for EYFS, Key Stage 1 and Key Stage 2 but our intent is always to transform this extensive list of knowledge into an exciting and engaging maths curriculum which champions the mastery approach to teaching maths.

Our mastery curriculum will be an ambitious, connected curriculum which is accessible to all pupils. Children are taught a concept in depth over a prolonged unit, moving through small progressive steps to develop a deep, lasting competence and understanding.

We use a concrete-pictorial-abstract approach to support children to understand the maths that they are learning and to be able to use it in a real-life context. The 'small step' approach means that all curriculum objectives are broken down into accessible parts that build on each other so that the learning journey is complete.

The main points of our mastery approach to maths:

- Teachers and parents reinforce a positive mindset towards maths.
- Fluency is developed alongside learning concepts.
- The large majority of pupils progress through the curriculum content at the same pace.
- Differentiation is achieved through adaptive teaching by emphasising deeper understanding and variation or through extra intervention/support.
- Children develop understanding of multiple representations of calculations and concepts through the use of concrete, pictorial and abstract representations.
- The use of language is central to learning Mathematics and children being able to articulate their understanding.
- Mathematical vocabulary through the use of sentence stems.

At Hogarth Primary School, maths learning is completed in mixed ability groups with a focus on oracy so that children are able to reason using precise mathematical vocabulary. The lessons mostly follow 'I do', 'We do', 'You do' phases and at the end, children have the opportunity to review and self-assess their learning. This self-reflection process feeds into the regular 'Recall,

Recap, Revisit' sessions, which are short, quick- fire practices to develop fluency and ensure that knowledge sticks.

Maths lessons are delivered by a team of enthusiastic teaching staff who promote Hogarth Primary School's love of maths. We provide regular Continuing Professional Development to all members of staff to ensure that their subject knowledge of maths is up-to-date and relevant and we are a part of a group of local primary schools who work together to share good practice in the subject.

Our teachers assess children in maths through a mix of formative and summative assessment. Assessment for learning takes place in the 'We do' phase of our maths lessons and teachers are able to see if a child is ready to move deeper into a concept or whether they need more practice. Formal assessments in maths take place at the end of each term to help teachers make judgements on whether a child is at an age-related expectation or not.

Cultural Capital

When beginning their primary school journey in the EYFS, many children start school with different and sometimes more limited experiences than others. Therefore, our aim is to give children the knowledge and skills to prepare them for what comes next in their lives. Cultural Capital is the essential knowledge that children need to prepare them for their future success – in the world of work, in relationships forged throughout life and as a valued contributor to society. This includes the relevant vocabulary needed throughout our children's education and the opportunity to link maths to their real world.

At Hogarth Primary School, our pupils are given opportunities to participate in a range of learning experiences beyond their classroom maths learning. These experiences include a trip to the Bank of England to learn about finance; talking to visitors about how maths is a part of their career and participating in school and national competitions which encourage more positive attitudes towards maths.

Impact

The impact of our curriculum will be apparent in the children's enjoyment of the subject, which will be monitored in pupil feedback. Children will become resilient mathematicians who not only

challenge themselves but also support each other and will understand how their maths learning is linked to real-life and their future.

When children leave Hogarth Primary School at the end of KS2, they will be prepared for secondary school and will be able to continue their use of maths in everyday life. They will leave our school with a reflective, resilient and responsible attitude, all core values in leading a fulfilling lifestyle.