Maths at Oak Hill C of E Primary School

In love we,
Learn – Grow – Flourish

At Oak Hill CE Primary, we use images of an oak tree's roots, trunk and leaves to symbolise different parts of our identity and our sense of belonging. As a school community, we work to link their symbolism to our Vision in a variety of ways. In Maths this means:

Learn – The roots of our oak tree symbolise the strong foundations on which mathematical understanding is built. Just as reading begins with secure phonics and vocabulary, mathematics begins with deep, well-established roots in number sense, fluency and conceptual understanding. Through high-quality teaching and carefully chosen programmes such as White Rose and Mastering Number, children develop the essential building blocks they need to recognise patterns, understand relationships and make sense of the number system. These roots nurture confidence, curiosity and a positive attitude towards mathematics, enabling children to explore ideas, make connections and apply their knowledge with increasing independence.

Grow – The trunk of the oak tree represents growth, reflecting how children's mathematical understanding strengthens and deepens over time. Building on the secure foundations established in the early years, children grow into fluent, flexible and confident mathematicians. They begin to apply their knowledge with increasing independence, drawing on our school values to persevere, think creatively and approach challenges with resilience. As they progress, children learn to reason mathematically, justify their thinking and explore multiple methods, developing the confidence to choose efficient strategies and articulate their ideas clearly. Through exposure to a broad range of mathematical concepts, real-life contexts and problem-solving opportunities, they develop curiosity, critical thinking and a willingness to explore the patterns and structures that underpin the world around them.

Flourish – The canopy of the oak tree represents flourishing, where secure foundations and sustained growth come together to create confident, capable mathematicians. Children flourish in mathematics when they apply their skills with purpose, independence and enjoyment—seeing maths not just as a subject to learn, but as a powerful tool for understanding the world. As they encounter increasingly rich and challenging problems, they develop resilience, curiosity and the confidence to explore multiple strategies, justify their reasoning and think flexibly. A broad "canopy" of mathematical experiences—daily fluency practice, problem-solving opportunities, real-life applications, mathematical talk and links with our wider community—enables

children to learn, grow and flourish. Through this, they come to view mathematics as a discipline full of patterns, possibilities and connections, supporting them to live life in all its fullness.

Maths Curriculum Intent

At Oak Hill CE primary school, we believe that *in love we learn, grow and flourish*—and this principle sits at the heart of our mathematics curriculum. We aim to nurture confident, fluent mathematicians who approach the subject with curiosity, resilience and joy.

Our intent is to ensure that every child:

- **Develops strong fluency** in number and calculation, enabling them to recall and apply key facts efficiently and with confidence.
- **Uses accurate and precise mathematical vocabulary**, empowering them to articulate their thinking clearly and engage meaningfully in mathematical dialogue.
- **Builds secure reasoning skills**, enabling them to make connections, justify their ideas and explain their methods with clarity.
- **Approaches problem solving with perseverance**, applying their knowledge creatively and flexibly to tackle challenges.
- **Sees mistakes as valuable learning opportunities**, understanding that productive struggle is a natural and important part of becoming a successful mathematician.

We provide a curriculum that is engaging, challenging and inspiring**,** rooted in rich mathematical experiences that spark curiosity and deepen understanding. Through carefully sequenced learning, practical exploration and opportunities for collaboration, we ensure that all children—regardless of starting point—are supported and stretched to achieve their full potential.

Ultimately, our intent is to cultivate learners who not only master mathematical skills but also develop a lifelong confidence in their ability to think mathematically, reason logically and flourish as capable, enthusiastic problem solvers.

Mathematics Curriculum Implementation at Oak Hill

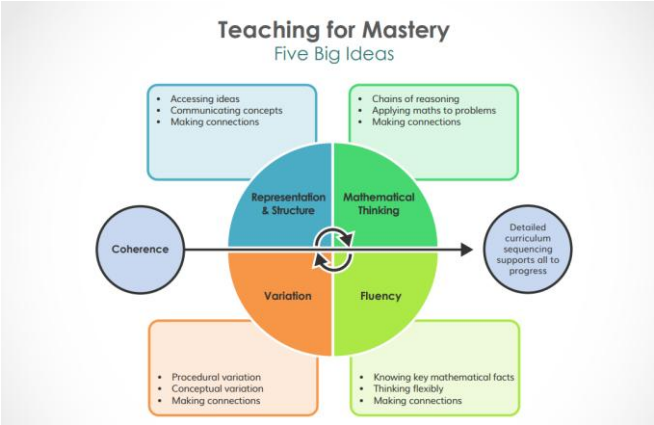
Curriculum Structure

At Oak Hill, we deliver our mathematics curriculum using White Rose Education in Key Stages 1 and 2, and Mastering Number in Reception (and Year 1). These schemes ensure full coverage of the National Curriculum and support the development of a secure mastery approach. In addition, teachers draw on high-quality resources from Testbase and Twinkl Mastery to provide further challenge, deepen understanding and extend reasoning opportunities.

At the beginning of each academic year, children in Key Stages 1 and 2 complete a unit on number and place value. This enables them to consolidate prior learning, secure key foundations and prepare for the wider curriculum content that follows.

Our approach prioritises depth of understanding. Children may work on the same learning objective for one to three days, depending on their level of security. This sustained focus supports the development of confident, fluent and flexible mathematicians.

High-quality mathematical vocabulary and clear modelling are central to teaching at Oak Hill. Each unit includes specific terminology that is explicitly taught and used consistently. This ensures clarity, reduces misconceptions and enables children to articulate their reasoning with precision.



Supporting Children with SEND

At Oak Hill, every child is recognised as an individual, and learning is adapted to meet the needs of all learners. Teachers provide scaffolding, modelling and structured support to ensure that learning is inclusive and accessible. Children with SEND may receive additional interventions, access further manipulatives or benefit from pre-teaching of key concepts to reduce barriers before the main

lesson. Close collaboration with the SENCO, alongside strong partnerships with parents and families, ensures that all children are supported to thrive.

Time Allocation

- Daily mathematics lessons
- Total weekly teaching time: **4.5–5 hours**
- Additional short fluency sessions (e.g., number facts, times tables) as required
- Flexible intervention time based on assessment outcomes

This structure aligns with national expectations, supports a mastery approach and provides sufficient depth for reasoning and problem-solving.

Assessment

A combination of summative and formative assessment is used to build a comprehensive picture of each child's mathematical development. At the start and end of each unit, children complete both Acorn and Oak tasks. These assessments identify prior knowledge, monitor progress and inform planning. Acorn tasks, in particular, support the evaluation of retention and highlight where further consolidation or targeted intervention may be needed.

Alongside unit assessments, children complete termly summative assessments in the Autumn, Spring and Summer terms. Teachers also continuously assess understanding through high-quality questioning, observation and analysis of written work. This ongoing formative assessment ensures that understanding is evaluated accurately—beyond test scores alone—and that any gaps are identified and addressed promptly.

Working in Partnership with Parents and the Community

Mathematics objectives are shared with families through weekly newsletters and termly topic overviews. Children also engage in enrichment opportunities throughout the year, including STEM-related activities and events with a specific mathematical focus. We encourage pupils to access skills-based websites at home to further support fluency and confidence.

Spirituality in Mathematics

Mathematics is rich in patterns, connections and surprising relationships. When children notice symmetry in nature, explore shapes in their environment or discover the predictable yet fascinating behaviour of numbers, they experience a sense of awe and wonder. These moments nurture spiritual development by

helping children appreciate the beauty, order and coherence present in the world around them.

Maths Curriculum Impact

Mathematics at Oak Hill contributes significantly to children's personal development, equipping them with critical thinking skills, resilience, and a growth mindset essential for life beyond primary school. It fosters responsible, curious learners who value perseverance and collaboration, preparing them to be successful citizens in modern Britain. By developing strong numeracy and problem-solving abilities, children gain the confidence to face future academic challenges and everyday situations with integrity and courage, fully embodying our school's ethos of learning and flourishing together.