



Oak Hill Church of England Primary School

Maths Curriculum

'Jesus said, "I have come that you may have life in all its fullness' (John 10:10)
FAITH – VALUES - ACTION

As a Thrive School we have high expectations for the **IMPACT** of our Curriculum in 3 strands:

Knowledge and Skills – Our Children will have the knowledge and skills as a firm foundation for the rest of their educational journey. They will have high levels of competency in English and Maths and the broader curriculum.

Learning Behaviours – A Year 6 pupil leaving Oak Hill will be eloquent, have high aspirations for the future and will be an enquiring independent learner who is resourceful and resilient to change or failure.

Personal Qualities – As our children begin their journey through secondary education we want them to be; resilient, self-reflective, curious, motivated to a love of learning. They are kind and compassionate and are good citizens and leaders.

Mathematics is an important creative discipline that helps us to understand and change the world. We want all our children at Oak Hill to experience the power and enjoyment of mathematics and develop a sense of **curiosity** about the subject with a clear understanding.

We foster positive, can do attitudes and we promote the fact that all children can achieve. We teach for secure and deep understanding of mathematical concepts through manageable steps. Building **resilience** by using mistakes and misconceptions as an essential part of learning and provide challenge to test **resourcefulness** through reasoning and problem solving tasks. They will spend time becoming true masters of content, applying and being creative with new knowledge in multiple ways.

We aim for all our pupils to:

- become fluent in the fundamentals of mathematics so that they develop conceptual understanding and the ability to recall and apply knowledge rapidly, accurately and **confidently**.
- be able to solve problems by applying their mathematics to a variety of problems with increasing sophistication, including in unfamiliar contexts and to model real-life scenarios
- reason mathematically by following a line of enquiry and develop and present a justification, argument or proof using mathematical language.
- have an appreciation of number and number operations, which enables mental calculations and written procedures to be performed efficiently, fluently and accurately to be successful in mathematics.

Implementation

Key Maths skills are taught daily, through the use of White Rose Maths, Deepening Understanding and Master the curriculum in the EYFS (which follows White Rose Maths). Children have a consistent and sequential lessons which focus on key mathematical skills including place value, the four operations and fractions. A range of reasoning resources are used to challenge all children and give them the opportunity to reason with their understanding. Children are encouraged to use a variety of representations to prove their thinking including, number sentences, verbal explanations, written sentences, bar models part whole models and using physical resources.

Lessons use three- part structure (Do it, Secure it, Deepen it) which allows the children to develop and build upon the skills and gives the children daily access to reasoning and problem solving activities. Teacher lead introductions allow children to explore new and existing concepts with support. Children then work through the three-part structure building on the fluency skills, reasoning and problem solving. When taking on the fluency tasks, teachers will use a '5 and fly' looking for 5 correct fluency questions before moving onto the reasoning and problem solving activities. During lessons children will be exposed to the correct mathematical terminology for the concept they are learning, terminology that will be used by the children when reasoning.

Where possible, links are made with other subjects across the curriculum for example: recording data in Science, understanding dates and time in History, area in Geography, ratio of paint mixing in Art.

Impact

By the end of KS2 we aim for children to be fluent in the fundamentals of mathematics with a conceptual understanding and the ability to recall and apply knowledge rapidly and accurately. They will have the skills to solve problems by applying their understanding to a variety of situations with increasing sophistication, including in unfamiliar contexts and to model real-life scenarios.

Children will be able to reason mathematically by following a line of enquiry and develop and present a justification, argument or proof using mathematical language. As a result of well-planned and structured lessons children are engaged and challenged daily. In all year groups, children will be confident and excited to talk about Maths and their learning and the links between Mathematical topics. All children will be able to succeed and be proud of their progress. Children will have access to a range of different representations of mathematical concepts to ensure they find the right strategy for their style of learning. They will be resilient, confident and secure in the concepts of maths both within and outside of Maths lessons.