



# Mathematics Intent

## Intent

Mathematics is an important creative discipline that helps us to understand and change the world. We want all pupils at Saint Nicholas Primary School to experience the beauty, power and enjoyment of mathematics and develop a sense of curiosity about the subject with a clear understanding, enabling all to flourish. At Saint Nicholas, we foster positive attitudes and we promote the fact that 'Everyone can do maths'. We believe all children can achieve in mathematics, and teach towards a deep understanding and security of mathematical concepts through manageable steps. Using mistakes and misconceptions is an essential part of our learning and we provide challenges through a range of rich and sophisticated problems. At Saint Nicholas, the majority of children will be taught the content from their year group. They will spend time becoming true masters of content, applying and being creative with new knowledge in multiple ways. We aim for all pupils to:

- Become fluent in the fundamentals of mathematics so that they develop conceptual understanding and the ability to recall and apply knowledge rapidly and accurately.
- Be able to solve problems by applying their mathematical knowledge 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, developing and presenting a justification, argument or proof using a range of appropriate mathematical language.
- Have an appreciation of number and number operations, which enables mental calculations and written procedures to be performed efficiently, effectively and accurately.

## Implementation

We teach the National Curriculum, supported by a clear skills and knowledge progression. This ensures that skills and knowledge are built on year by year and sequenced appropriately to maximise learning for all children. Maths Lesson: Unit planning based on National Curriculum Statements (Themes), in manageable steps, taken from White Rose Maths scheme of learning. Children are taught Mathematics for approximately 1 hour daily. Support and the level of challenge is determined during each lesson to ensure secure understanding based on the needs of the child. Re-capping from previous Maths lessons or key learning areas such as number bonds, time, doubles, times tables, quick recall of division facts etc are often addressed during 'Fluency Sessions'. Teachers are encouraged to use these sessions to immediately tackle misconceptions and consolidate learning of areas previously taught.

## **Learning, Loving, Living in God's Family**

*"But I am like an olive tree flourishing in the house of God; I trust in God's unfailing love forever and ever. Psalm 52:8*



In Reception and Nursery mathematics is taught through the EYFS curriculum and is covered through whole class teaching, discrete adult led activities and enhancements to continuous provision provided in the classroom and outside learning space.

## **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 should have the skills to solve problems by applying their mathematical knowledge 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 present a justification, argument or proof using the correct mathematical language.

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