

St Vincent de Paul

Maths Curriculum



Curriculum Intent:

Our curriculum aims to:

- provide high quality mathematical education for all.
- develop children's appreciation of the beauty and power of mathematics and a sense of enjoyment and curiosity.
- develop mathematical processes, key concepts, skills and fluency
- enable pupils to reason mathematically and to solve problems by applying their mathematics in a range of contexts.
- create positive mindsets 'anyone can do Maths'

Implementation:

Our curriculum follows the NCETM planning for EYFS and is supplemented with high quality resources to ensure complete coverage of the Early Years Curriculum. From KS1 we follow HFL Essentials Maths which is a spiral curriculum in which learning is built upon step by step, sequence by sequence and year on year. It is aspirational and ensures progression and coverage through the primary phase.

We emphasise a mastery approach to our mathematics curriculum which teaches children to explore and demonstrate mathematical ideas, enrich their learning experience and deepen their understanding. This ensures pupils truly understand what they've learnt.

We promote teaching and learning through a CPA approach (Concrete, Pictorial and Abstract). All pupils are encouraged to physically represent mathematical concepts. Manipulatives and pictures are used to demonstrate and visualise abstract ideas, alongside numbers and symbols. These skills are developed in order for children to show their reasoning and understanding, leading to opportunities for greater depth tasks and exploration.

Concrete – children have the opportunity to use concrete objects and manipulatives to help them understand and explain what they are doing.

Pictorial – children then build on this concrete approach by using pictorial representations, which can then be used to reason and solve problems.

Abstract – With the foundations firmly laid, children can move to an abstract approach using numbers and key concepts with confidence.

Impact:

A mathematical concept or skill has been **mastered** when a child can show it in multiple ways, using the mathematical language to explain their ideas, and can independently apply the concept to new problems in different situations. We will see the impact of our curriculum by:

- recall of facts and procedures, enhancing mental fluency.
- flexibility and fluidity to move between different contexts and representations of mathematics.
- ability to recognise relationships and make connections in mathematics.
- Problem -solving and reasoning rich classrooms
- Vocabulary rich classrooms
- Increased resilience to problem solving and enjoyment in experiencing challenge in their learning
- Secure age -related expectations and high quality in the moment feedback