

ST ANNE'S RC PRIMARY AND NURSERY SCHOOL
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Mathematics

Intent

Mathematics is a creative and highly inter-connected 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. At St Anne's we believe that 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.

Why is Mathematics important at our school?

At St Anne's we follow the National Curriculum combined with White Rose Mastery programme to plan, deliver and teach Mathematics. We truly believe that every aspect of day-to-day life involves maths in one context or another; whether that be paying for your shopping in a local supermarket, reading a bus timetable or baking a cake with your family. At St Anne's, we enable children to understand what numbers are, how they came to be and how we manipulate them in order to be successful at these everyday tasks.

However, not only do we 'teach the maths', we teach the application, conceptual understanding, links and reasoning behind the numbers, shapes and statistics. This means our learners become curious, seek patterns, hypothesise, prove or disprove and are confident and able to justify. So not only are they successful at maths, they thrive within maths and all its possible application.

Implementation

How does St Anne's ensure progression in our key knowledge and concepts in Mathematics?

White Rose schemes of learning are designed to support a mastery approach to teaching and learning, as well as to support the aims and objectives of the National Curriculum.

A Mastery approach ensures children develop the following skills:

- Mathematical language
- Mathematical Thinking
- Multiple Representations
- Problem Solving
- Deeper Thinking

Each day, Maths starters take place in every class for 10 minutes to consolidate key areas of mathematics or introduce new topics in your class.

Cover sheets are to be stuck in at the beginning of each unit. These inform the children of the skills they will learn throughout the unit and ensure that teachers have covered all objectives by the end of the year. The children then revisit this document at the end of the unit and have the opportunity to RAG the objectives, showing how confident they feel at applying these skills. They discuss what they have learnt and what they used to support them.

On the first day of the new topic we have a discussion day. This is where the teacher links the new learning to real life, putting the children's learning into context. This is done through picture cues and then the children discuss why they would need to use this skill in day-to-day life. This gives meaning behind the learning and helps engage the children as they feel it is purposeful and will help them in the future.

When differentiating work, to ensure it matches the needs of all learners we use our RAG system (red being the most challenging activity). This allows the children to progress throughout the lesson and move to the more difficult challenge.

Impact

Confident children who can all talk about Maths and their learning and the links between Mathematical topics.

Lessons that use a variety of resources to support learning.

Different representations of mathematical concepts.

Learning that is tracked and monitored to ensure all children make good progress.