

Mathematics

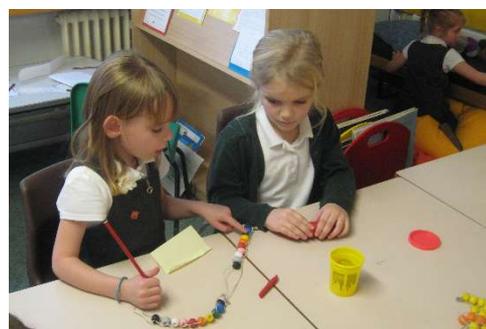
Mathematics lessons at Whinmoor St Pauls are made up of several important parts.

Counting

Children count every day, practising odd and even numbers; times tables; crossing hundred and thousand boundaries; and much more. Encourage your child(ren) to become fluent counters by practising regularly at home counting in different amounts, starting at different numbers. For example, practise counting in 3s, starting from 11, or count in 500s starting at 3200.

Mental Maths

Children should be able to explain their thinking about maths topics that they have learned in school. They tackle questions like: 'Explain how you know?'; 'Do you agree or disagree with this answer?'; and 'Which is the odd one out and why?'. Help your child(ren) at home by asking them questions to solve in their heads in a short time limit.



Number Facts

It is important that children know a range of number facts appropriate to the level that they are working at. This is because knowledge of number facts enables children to concentrate more on applying their knowledge to solve problems. Examples of number facts that could be practised at home are: pairs of numbers that make 10, 20, 100, or 1 whole; times tables; equivalent fractions, decimals and percentages; and special numbers like prime numbers.

Using objects, models and images

In mathematics lessons, children use a range of equipment and diagrams to help them to understand how numbers work. Ask your child's teacher for examples which you can use at home.



Maths in the real world



Children will be shown how the mathematics that they learn is used in real life. Talk to your child(ren) about the maths that you use in your day to day business, such as estimating how much a shopping bill will be. The teachers at Whinmoor St Pauls are more than happy to provide further information on how you can support your child's learning.

Written calculations

Children develop a deep understanding of formal written calculations and practise regularly to become fluent. Speak to your child's teacher to find out the methods that are appropriate for your child's age group.



Mathematics Mastery

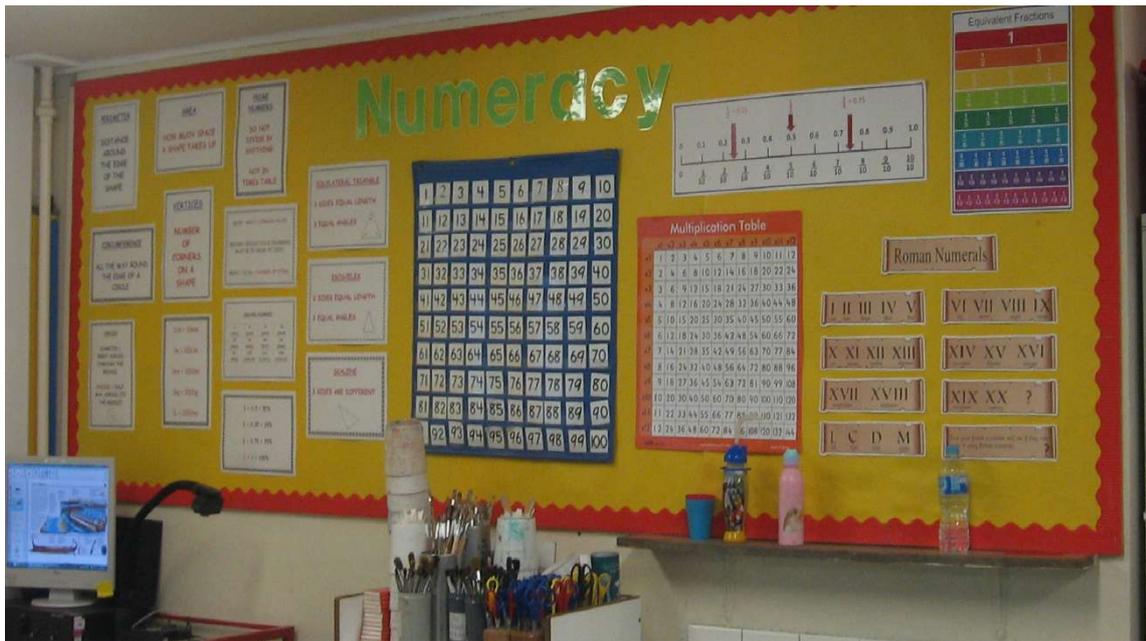
The principles of Mathematics Mastery are implemented in all maths teaching across the whole school. The Mathematics Mastery curriculum has been developed to ensure every child can achieve excellence in mathematics. It provides pupils with a deep understanding of the subject through a concrete, pictorial and abstract approach (see the diagram below for an example of this approach). This ensures pupils fully understand what they are learning.



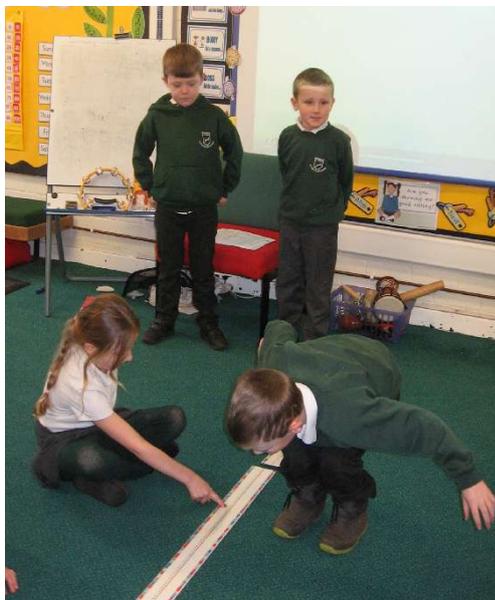
Key features of our Maths Mastery curriculum:

- High expectations for every child
- Fewer topics, greater depth
- Number sense and place value come first
- Language development a feature of every lesson
- Research-based curriculum
- Objects and pictures always before numbers and letters
- Problem solving is central
- Calculate with confidence– understand why it works

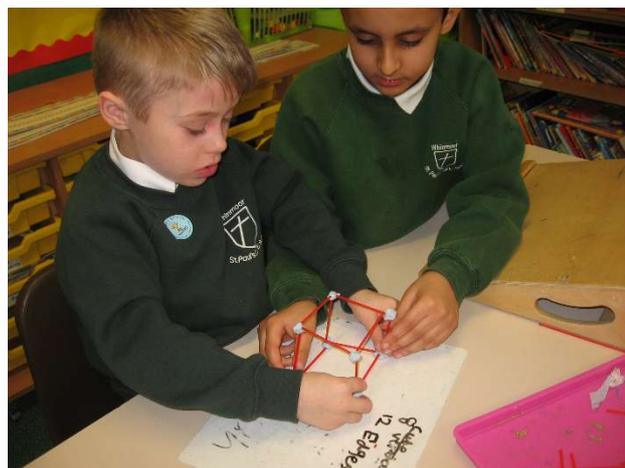




Mathematics Mastery places emphasis on the cumulative mastery of essential knowledge and skills in mathematics. It embeds a deeper understanding of maths by utilising a concrete, pictorial, abstract approach so that pupils understand what they are doing rather than just learning to repeat routines without grasping what is happening.



For further Information about Mathematics Mastery, please visit www.mathematicsmastery.org



Tracking Pupil Progress

In Mathematics Mastery assessment is continuous. From the beginning of every lesson, teachers and teaching assistants will be assessing what their pupils are, or are not understanding and use this to scaffold each segment of the lesson. Interventions will be both planned for and 'live', meaning that misconceptions are dealt with immediately and high attaining pupils are challenged appropriately.