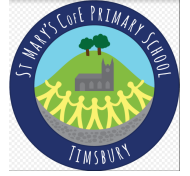




St Mary's Maths Intent, Implementation and Impact



Intent

At St Mary's our curriculum will work to the expectations set out in the framework document for The National Curriculum in England, September 2014 for Years 1 to 6; and the Early Years Foundation Stage Curriculum, 2014.

The National Curriculum for Mathematics aims to ensure that all pupils:

- become **fluent** in the fundamentals of mathematics, including through varied and frequent practice with increasingly complex problems over time, so that pupils develop conceptual understanding and the ability to recall and apply knowledge rapidly and accurately.
- **reason** mathematically by following a line of enquiry, conjecturing relationships and generalisations, and developing an argument, justification or proof using mathematical language
- can **solve problems** by applying their mathematics to a variety of routine and nonroutine problems with increasing sophistication, including breaking down problems into a series of simpler steps and persevering in seeking solutions.

Our ambition at St Mary's is that all children will leave St Mary's with a lifelong love of learning especially in maths and a deep understanding of the fundamentals in key areas. We aim for all of our children to be strong mathematicians who:

- have a strong conceptual understanding of maths, its structures and its relationships;
- can recall and apply their knowledge confidently and efficiently;
- are secure in using written methods for which they have a clear understanding.

Implementation

At St Mary's we ensure that mathematical skills are taught everyday, both within and outside of daily designated Maths lessons. Our long-term progression map broadly follows that which is advocated by the White Rose Maths Hub. Our medium term planning process enables teachers to make decisions about the learning journey for their class through reordering the White Rose Small Steps to ensure a more progressive and coherent sequence of lessons. Each unit begins with a special introductory lesson focussing on the concrete apparatus, the pictorial representations and the vocabulary that pupils will meet during that unit.

Outside of Maths lessons, children from EYFS to Year 3 have daily Number Sense sessions to secure subitising skills. At St Mary's, we aim to eradicate the need for pupils in UKS2 to be counting on fingers. Throughout the week, there are regular opportunities to develop number fluency through Number of the Day activities. Quadrant Quizzes also provide pupils with opportunities to revisit essential knowledge from previous units.

In addition, to further develop fluency, children have access to Times Tables Rock Stars and Numbots, with rewards for effort and success awarded during Friday Celebration Assembly. Doodle Maths is also used to practise key skills as homework tasks.

Children's next steps in learning are at the forefront of all planning and progress is reviewed through regular assessments. All Maths lessons are carefully thought out and considered to allow all children to prosper and fulfil their potential. Some children may spend additional time working with an adult on a one-to-one basis or in small groups to close a gap that has been identified in their mathematical understanding or to provide stretch and challenge activities for those who have grasped concepts swiftly.

Teachers in the Early Years Foundation Stage base their teaching on "Development Matters" to ensure that the children are working towards the "Early Learning Goals for Mathematical Development". The Early Years Foundation Stage teachers deliver some whole class teaching and also adult-led Maths group activities each day. The children access a range of Maths activities within continuous provision and investigate a "Number of the Week" together as a class.

Each class has a Maths Working Wall which is updated daily and contains useful information for the children to access and enable success.

Maths links are made across the curriculum wherever possible.

Impact

At St Mary's we aim to provide opportunities for all children to prosper and fulfil their individual potential whilst working towards a national standard.

Our cross curricular approach to Maths, along with our opportunities for all children to reason and problem solve gives children experiences with Maths in the real world. This impacts on the children's cultural capital and means children leave St Mary's ready for their next step in education but also with a selection of real life experiences.

Children leave St Mary's feeling confident in mathematics and being accurate, fluent and flexible in their methods and procedures. Pupil surveys show that children develop a love of learning in Maths whilst at St Mary's.

Due to our constant recall strategies, children are provided with plenty of opportunities to practise their new skills, making sure they become part of their long term memory. All our approaches in Maths have had a positive impact on children's progress and attainment and it is something we will continue to monitor the impact of to make sure all children that attend St Mary's continue to flourish as confident and fluent mathematicians.