

Maths – Intent, Implementation and Impact Statement



Our school is welcoming and inclusive. We strive to celebrate and nurture everyone to reach their full potential. We, both children and adults, desire to be **good role models** who inspire others through **a love of learning** and are motivated to make a positive impact on each other's lives. We want this impact to go beyond school, into our community and the world. To be lights in the darkness for, **"The light shines in the darkness and the darkness has not overcome it. (John 1:5)**

Mission Statement: St. Stephen's is rooted in Christian faith and committed to excellence: encouraging staff to excel, pupils to flourish, and all to feel secure, valued and loved.

Intent

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 non-routine problems with increasing sophistication, including breaking down problems into a series of simpler steps and persevering in seeking solutions.

(National Curriculum in England, September 2013)

Our principal aim is that children at St Stephen's Primary School have a positive and successful learning experience in all areas. We aim to provide a high-quality curriculum that is engaging, inspiring, broad, innovative and creative.

- Our focus on teaching maths using a mastery approach will ensure that pupils acquire a deep, long-term, secure and adaptable understanding of the subject.
- Children will meet the National Curriculum expectations in mathematics, which will be taught by highly-enthusiastic qualified staff who will support children to develop mastery of concepts and inspire enthusiasm and interest in mathematics.
- We aim to help children to develop into independent learners with inquisitive minds who have secure mathematical foundations and are aspirational in their learning.
- We want to ensure children are confident mathematicians who are not afraid to take risks.
- We develop cross-curricular links and provide children with opportunities to use maths in other subjects and understand the value of maths in the wider world.

Implementation

At St. Stephen's Primary School, we teach Maths using a Mastery approach. This will ensure that pupils acquire a deep, long-term, secure and adaptable understanding of the subject.

- Lessons are planned and sequenced so that new knowledge and skills build on what has been taught before.
- Lessons are planned in a sequence of 'small steps' to ensure all concepts are fully embedded before they are built upon.
- Lessons follow a mastery structure and will include key features such as the "I do, we do, you do" approach, impactful use of clear and precise mathematical language, key questions and stem sentences and opportunities to share and critique answers and strategies.
- Teachers assess, monitor & evaluate effectively as they teach, providing opportunities for intervention or extension as appropriate.
- Teachers follow the White Rose maths programme when planning and teaching lessons. We use adaptive teaching to ensure all our learners succeed.
- This scheme is supplemented with a range of high-quality extension & deepening activities from programmes such as Third Space Learning, NRich and NCETM (National Centre for Excellence in Teaching Mathematics).
- All children in Key Stage 2 have access to 'Times Tables Rockstars' where they can compete against other pupils and classes in school.
- The maths lead and shadow maths lead liaise closely with the Northwest 3 Maths Hub. We are currently in the second year "Developing" Mastering Maths working half termly with our local Maths Hub school and NCETM Maths Hub specialist.
- Key Stage One and EYFS are currently in the second year of implementing "Mastering Number." This is used as a daily supplementary maths session in Years 1 and 2, and as the main maths scheme for EYFS.

- The maths lead also works regularly with maths specialists in our local consortia to continually develop good practise and shares this along with information from the maths hub team with all teachers in school through half termly maths staff meetings.
- Our pupils are encouraged to learn by using multisensory approaches. Objects and pictures are used to demonstrate and visualise abstract ideas, alongside numbers and symbols. (CPA Approach)

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

We endeavour to ensure that our children's attainment in maths is in line with or exceeding national average, taking into consideration the varied starting points of children, with all children making at least the expected level of progress.

Children's progress is monitored regularly and effectively allowing intervention and extension to take place to ensure children have every opportunity to reach their potential.

Teaching for Mastery ensures that all children are given every opportunity to succeed. The CPA approach ensures that children have a range of opportunities and support to build on their understanding and it allows children with a range of learning styles to access and to achieve in Mathematics.

Regular monitoring of teaching and learning by the maths lead, shadow maths lead and the Senior Leadership Team, through lesson observations, learning walks, book trawls, pupil voice and progress meetings ensures that high quality teaching and learning is taking place throughout the school. All progress is celebrated ensuring that children progress through the school feeling pride in their achievements thus developing confidence in their learning.