



Stoke Row School

Maths Curriculum

At Stoke Row C.E Primary we follow the statutory requirements of the Early Years Foundation Stage (EYFS) and National Curriculum (NC) in the teaching of mathematics.

Early Years Foundation Stage Statutory Framework

https://www.foundationyears.org.uk/files/2017/03/EYFS_STATUTORY_FRAMEWORK_2017.pdf

National Curriculum KS1 and KS2 Mathematic programme of study

https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/335158/PRIMARY_national_curriculum_-_Mathematics_220714.pdf

In line with our school vision, we believe that success in maths for every child at Stoke Row is possible and with courage and perseverance they can excel.

Intent

- To provide a curriculum that caters for the needs of all individuals.
- To develop children's mathematical skill and understanding and ensure that they become confident mathematicians who are not afraid to take risks.
- To develop independent, courageous learners who have secure mathematical foundations and an interest in self-improvement.
- To provide challenge for children through high quality activities with a focus on: fluency, reasoning and problem solving.
- To enable children to gain enjoyment and self-esteem through learning and doing mathematics and pleasure from their ability to use it to solve problems

Implementation

- High quality first teaching delivers appropriately challenging work for all individuals. Teachers follow The National Curriculum, Stoke Row Calculation Policy and Development Matters.
- Pupils are taught using concrete, pictorial and abstract experiences.
- Pupils taught a range of problem-solving skills including: "Spotting a Pattern", "Working Systematically", "Trail & Improvement", "Visualisation", "Working Backwards" and "Reasoning Logically".

- The use of planning resources including Abacus, Hamilton, White Rose Maths, NCETM (National Centre for Excellence in the Teaching of Maths) & NRICH (National Research Institute of Cultural Heritage) and 'Talk it, Solve it'.
- Through revisiting topics, children are given opportunities to ensure learning is "baked" into long term memory.
- The use of a range of mathematical resources.
- Rich questioning using accurate mathematical vocabulary.
- Using elements of Maths Mastery to enrich the curriculum.
- Continuous monitoring of pupils' progress against expected attainment for their age.
- Interventions and personalised learning opportunities for children who need to close the gaps and for children that need challenging.
- Assessment for learning through self and peer assessment.
- Effective deployment of support staff during maths lessons.
- Assessment – ongoing formative assessment and end of term/year summative assessment tests
- Weekly times tables and number bond challenges.
- Cross Curricular Opportunities – when relevant, mathematics will be linked to other areas of the curriculum.

Impact

- EYFS: GLD Expected Standard 83% (11% above National)
- KS1: Expected Standard or Greater Depth 90% (14% above National)
- KS2: Expected Standard or Greater Depth 50% (29% below National)

How do we help children to learn?

Maths is an international language and our aim is for all children at Stoke Row to think mathematically, enabling them to problem solve and reason in a variety of contexts. We aim to foster positive attitudes towards the teaching and learning of maths so that our children develop a 'can do' attitude towards the discovery of maths. We aim to broaden our children's knowledge and understanding of how Maths is used in the wider world and its importance as a language for both communication and thinking.

Characteristics of a mathematician

- The ability to think independently and to persevere when faced with challenges and learn from mistakes.

- The ability to reason, generalise and make sense of solutions.
- The ability to show initiative in problems in a wide range of contexts, including the new or unusual.
- A broad range of skills in using and applying mathematics.
- An understanding mathematical vocabulary, the important concepts and an ability to make connections within mathematics.
- Fluency in performing written and mental calculations and mathematical systems.
- Fluent knowledge and recall of number facts and the number system.

How are staff supported?

- Teachers and Teaching Assistants are regularly given opportunities to extend their mathematical knowledge and delivery of the curriculum through CPD and Staff Meetings.
- Maths co-ordinator attends local partnership CPD three times a year

Assessment

Maths is informally assessed on a daily basis at Stoke Row to help pupils progress and support future teaching and planning. It is formally assessed three times a year or more using end of unit and term assessments.

Next steps:

- Develop role of Subject Leader
- Embed elements of “Mastery” into the curriculum
- Ensure that KS2 results are above average