



Curriculum Drivers Maths

High Aspirations

Within mathematics, we promote high aspirations and encourage all children to be curious, confident and competent mathematicians. During lessons, all children are given equal opportunities for learning. Challenge is evident throughout, and children are encouraged to challenge themselves through reasoning and problem solving.

These skills, which children have learned, are essential to everyday life. They allow children to be financially literate and have a solid understanding of how mathematics underpins everything around them. A solid mathematical foundation and a confident approach to problem solving prepares children for a successful adult life.

Moral Values

The moral development of children at St Thomas More is consistent throughout the whole curriculum. Within mathematics, children are often faced with problems which require a high level of thinking.

They may also have to compare choices and decide which is the best and why.

Culture and Arts

Children who have a solid understanding of mathematics are **socially mobile** and have a greater awareness of all future possibilities in the wider world.

Mathematics is a universal language around the globe. Mathematical concepts and theorems, such as geometry, algebra and 'Singapore' picture maths, have been developed from a range of **cultures**. Children are given opportunities to explore different mathematical ideas and discuss where they originate from. A range of key mathematical figures are discussed in KS2.

Key figures – Alan Turing, Katherine Johnson

Emotional and Mental Well-Being

At St Thomas More, well-being is of paramount importance. As such, our maths lessons and curriculum are well structured and scaffolded in a way which allows all children to shine and be proud of their achievements. The zones of regulation underpin all our learning and, as such, children have strategies to recognise when they need support. Vocabulary is pre-taught and displayed to give children both the confidence and ability to talk about their work and reason through questions. Children know that they are not expected to face challenges and problems alone and they are actively encouraged to ask for help if needed. Teachers adapt lessons readily to the children's needs.

Sporting Opportunities and Physical Health

Mathematical skills are integral to PE lessons. These include measuring distances and angles, measuring time and scoring. Although children may not be explicitly taught these skills during PE lessons, they are given further opportunities to apply previously taught mathematical skills within real life sporting contexts. Moreover, Muddy Puddle lessons are used to support, particularly during the concrete and pictorial stages, to give children practical experiences which promotes a higher level of engagement. At STM, we recognise that being outdoors enhances children's mental and physical health.