

## Why is Mathematics

### Important?

Maths is an essential skill that enables us to live an independent life. It teaches us how to make sense of the world around us, whether it be calculating the total amount of money we need to purchase items, knowing what time to meet a connecting train or weighing precise amounts of ingredients when following a recipe. Maths helps us to develop problem solving and reasoning skills that allow us to solve a variety of problems.



## Our Vision

At Sebert Wood, our mathematics curriculum has been developed to ensure every child can achieve. Children can experience a sense of awe and wonder as they solve a problem for the first time, discover different solutions and make links between different areas of mathematics. It provides pupils with a deep understanding of the subject through a concrete, pictorial and abstract approach. This ensures pupils fully understand what they are learning, as opposed to simply rote learning. We want our pupils to become **fluent** in the fundamentals of mathematics so that they develop conceptual understanding and the ability to recall and apply knowledge accurately. They need to be able to **reason** mathematically by following a line of enquiry and develop and present a justification, argument or proof using mathematical language. Moreover, our pupils will **solve** problems by applying their mathematics to a variety of problems with increasing sophistication, including in unfamiliar contexts and to model real-life scenarios. This will prepare the pupils for secondary school and beyond.

# MATHEMATICS



## What does Mathematics look like at Sebert Wood School?

Developing problem solving and reasoning skills is a thread that runs through all our maths lessons. Use of White Rose resources ensures pupils are constantly challenged to explain why, to prove how they know, to convince that they are correct or to find all possible outcomes. They have the opportunity to use a wide range of manipulatives to support their learning such as base ten, number lines, Numicon, Diennes blocks, place value counters and Cuisenaire rods. Effective understanding and recall of times tables is the foundation of most of the mathematics pupils will do at primary school and our curriculum facilitates pupils fluency in number skills. Every pupil has access to Times Table Rockstars, whilst Mathletics is utilised in Years 4 and 5. As the subject continues to evolve, Staff CPD is crucial to provide our pupils with the quality first teaching. 'Mastering Number' lessons have developed good number sense for all children from Reception through to Year 1 and Year 2, giving pupils' confidence and flexibility with number. One of our maths subject leads is a qualified 'Mastery Specialist' teacher and the other is working with the Cambridge Maths Hub as part of the 'Readiness for Mastery' programme.

## What do our pupils think?

Children enjoy the challenge that maths lessons provide. They are enthusiastic and eager to learn new skills and apply them in a range of situations. They like the fact that maths lessons are not limited to the classroom and that learning takes place all around the school.

"I love solving real life problems with money"

"I like being pushed and working my brain. I feel great when I solve a difficult question."

"I enjoy using Numicon when we work on number bonds"

"My favourite maths activity involves teaching my classmates how to multiply fractions."