

Mathematics at Springfield Primary School

The national curriculum for mathematics aims to ensure that all pupils:

- become fluent in the fundamentals of mathematics...
- reason mathematically...
- can solve problems...

By the end of each key stage, pupils are expected to know, apply and understand the matters, skills and processes specified in the relevant programme of study.

A high-quality mathematics education therefore provides a foundation for understanding the world, the ability to reason mathematically, an appreciation of the beauty and power of mathematics, and a sense of enjoyment and curiosity about the subject.

The expectation is that the majority of pupils will move through the programmes of study at broadly the same pace

-National Curriculum 2014

Maths at Springfield is delivered using the National Curriculum and the Early years foundation stage (EYFS) Statutory Framework.

Across school, our maths lessons adopt a 'mastery' approach to learning.

Learning takes place in blocks, covering carefully sequenced objectives over the course of each academic year.

Objectives within each block are broken down into 'small steps' and delivered to children through carefully planned and well-structured lessons. This allows children to achieve and master each objective before progressing and building on these strong foundations.

Within each lesson there are opportunities for children to deepen their understanding of each objective, as well as opportunities for children to receive additional support when necessary.

At Springfield we recognise that mental maths skills are key to allowing children to access the more complex calculations and number objectives set out in the national Curriculum, and as such we dedicate daily time to allow all children to develop these skills.

There is a balance between developing children's fluency, reasoning and problem solving within, and across, units of learning.

Practical resources are consistently used across school to allow for a

Concrete → Pictorial → Abstract

approach to learning. This approach works to ensure that children are secure in their

mathematical understanding. Details of this progression can be found in the Calculation Policy.

Assessment of maths is done in a variety of ways, including pre-learning tasks and prior-intervention, peer marking, teaching assistant and teacher marking, as well as more formal assessments each half-term. All of these methods allow teachers at Springfield to identify children's next steps and plan personalised and well-sequenced lessons for their class.

Children are encouraged to do some home learning, such as learning their times tables and reading the time on both analogue and digital clocks. We also encourage children to practise skills and strategies they've learnt in school at home and actively encourage them to take advantage of school's subscription to SumDog and Times Table Rockstars. More information about home learning can be found on each class' homework grid, which is sent home each half term.

Through our approach to Mathematics at Springfield, we motivate all children to enjoy maths and become independent, resilient and successful mathematicians.