



**Cotsford
Primary School**

Maths

Curriculum Information

The purpose of studying Mathematics is a creative and highly inter-connected discipline that has been developed over centuries, providing the solution to some of history's most intriguing problems. It is essential to everyday life, critical to science, technology and engineering, and necessary for financial literacy and most forms of employment. 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 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.

The children will be given opportunities to learn and develop their understanding of:

- Number - The Number System and Place value
- Number - Addition, Subtraction, Multiplication and Division
- Number - Fractions
- Ratio and Proportion
- Algebra
- Measurement
- Geometry - Properties of Shape
- Geometry - Position and Direction
- Statistics

Assessment of Mathematics

At Cotsford Primary it is our intention that all children will at least reach their age related expectations as described in the National Curriculum. However, through a curriculum that is challenging and relevant to the children we expect children to achieve greater than age related expectations.

Children who are not meeting age related expectations will be supported by staff through differentiated tasks and targeted small group work. The direct use of key questions and targeted support will be offered to ensure that any gaps between groups of children are closed.

Assessment of the children's mathematical skills will be assessed by the class teacher. Teacher Assessments will be ongoing throughout the year as well as termly summative assessments. There will be a range of evidence to support teacher judgement including ongoing assessments in maths books, mental maths assessments and end of unit assessments. Year 2 and Year 6 will complete formal Standard Assessment Tasks (SATs) in the summer term.

Monitoring of Mathematics

The quality of the learning across the school is monitored by the Maths Subject Lead Teacher.

Monitoring includes the Subject Lead Teacher observing learning within lessons, planning scrutiny, work scrutiny and discussions with children. Analysis of data is also undertaken to ensure that standards are high and that improvements are made where necessary.

Training is offered to all Subject Lead Teachers to ensure that their knowledge and skills are up to date and accurate.

The Subject Lead Teacher meets with the Special Interest Governor for Maths to share school improvement plan initiatives with them and ensure that governors are aware of standards across the school.