



Vision

Our aim is that children leave our school with a developed love for mathematics and a resilient attitude when maths is challenging. We will ensure they are ready to apply their mathematical skills to everyday life and be confident to do so.

Context

As a school we want to raise the aspirations of our children and for them to be aware of the world of work. We want children to know of the career opportunities in maths and the doors that good mathematical knowledge can open. We therefore enthuse them by making maths real, challenging and exciting.

Therefore, in EYFS...

During EYFS children will be introduced to mathematics through a range of practical activities such as counting and sorting objects, recognising numerals equal an amount and to start using the language of addition and subtraction.

By the end of EYFS children will automatically recall number bonds to 5 and some number bonds to 10. They will explore the composition of numbers to 10 and be able to count securely to it.

In KS1...

During KS1 children will become more confident with recording their written methods for addition and subtraction with the support of practical equipment. They will be introduced to the 2, 5 and 10 x tables and the link between multiplication and division.

By the end of KS1 children will be able to add and subtract two two-digits without the use of practical equipment. They will be able to recall 2, 5 and 10 x tables with related division facts.

In LKS2...

During LKS2 children will be introduced to the column method of addition and subtraction of two 3 digit numbers with the use of apparatus to support where necessary. They will begin to learn, 3, 4, 6, 7, 8, 9, 11 and 12 x multiplication facts and use these to multiply 3 digit numbers by 1 digit numbers. They will be introduced to dividing two and 3 digit numbers by 1 digit using the partitioning method.

By the end of LKS2 they will be able to competently add and subtract 2 3 digit numbers using the column method. They will be able to recall all multiplication and division facts up to 12, multiply a 3 digit number by a 1 digit number and divide a 3 digit number by 1 using the partitioning method.

In UKS2...

During UKS2 children will be learning how to use the four functions accurately and build on previous learnt knowledge. They will develop their knowledge of further, more complex maths concepts. There will be a focus on selection and application of mathematical knowledge to problem solve and reason.

By the end of UKS2 children will use previous learnt knowledge and apply this to more complex problem solving.

Developing spirituality and British Values

There is a sense of wonder in the exactness of mathematics as well as a sense of personal achievement in solving problems. Spiritual education provides the opportunity to experience the awe and wonder of mathematics that is shown to and/or investigated by children. Mathematics can be used to explain the world and the mathematical patterns that occur in nature such as the symmetry of snowflake patterns or the stripes of a tiger. There is a sense of wonder in the exactness of mathematics as well as a sense of personal achievement in solving problems. The use of ICT and the nrich website provide pupils with opportunities to develop further investigative skills within mathematics. Cultural education concerns the wealth of mathematics in all cultures and the opportunities pupils are given to explore aspects of personal culture and identity through mathematics. Recognition is given to symmetry patterns, number systems and mathematical thinking from other cultures.