

Mathematics

At Tregoze Primary School, we offer a maths curriculum which aims to develop a deep and secure understanding. Therefore, all lessons provide opportunities for the children to develop their fluency, reasoning, and problem-solving skills. This approach to maths ensures that ALL children master and secure their maths learning and knowledge before moving on. We firmly believe that ability is not fixed, and this approach means that all children are offered the same opportunities and chances to achieve.

All children are taught maths every day, but we also offer a discrete daily number sense session. This is a short session in which the children work on their knowledge of addition, subtraction, multiplication, and division, with the aim of developing fluency.

Key Stage 1

In key stage 1, children continue to develop their mathematical knowledge and strategies. Developing number knowledge is hugely important, and pupils will focus on:

- Counting, reading, and writing numbers to 100 in numerals and words.
- Representing numbers in different ways.
- Understanding the place value of numbers to 100.
- Finding one more and one less.
- Identifying odd and even numbers.
- Comparing numbers using less than, greater than, and equal to symbols.

Children in key stage 1 will also learn about addition, subtraction, multiplication, and division, and will learn a variety of strategies to help them find answers. They will focus on:

- Adding and subtracting numbers using a wide range of strategies.
- Learning number bonds to 20.
- Understanding that addition can be done in any order and that there is a relationship between addition and subtraction facts.
- Counting in 2, 5, 10, and 3, working toward learning these times tables.
- Learning a range of strategies to solve multiplication and division.
- Recognising, finding, and naming $\frac{1}{2}$, $\frac{1}{4}$, and $\frac{3}{4}$ of shapes, objects, lengths, and quantities.

It is also important that children in key stage 1 continue to develop their understanding of shape, space, and measure. They will focus on:

- Recognising and describing the properties of 2D and 3D shapes.
- Using mathematical vocabulary to describe position, direction, and movement, and describing, ordering, comparing, and measuring length, height, mass, and capacity.
- Recognising coins and using them to make amounts.
- Telling the time when it is o'clock, half past, quarter past, and quarter to.
- Using data to draw tally charts, block graphs, tables, and pictograms.

Key Stage 2

In key stage 2, children continue to build upon their learning from key stage 1.

Number continues to be of high importance in key stage 2, as children focus on:

Counting, reading, and writing numbers to 10,000,000 in numerals and words.

Representing numbers in different ways.

Understanding the place value of numbers to 10,000,000.

Finding more and less of numbers.

Comparing numbers using less than, greater than, and equal to symbols.

Comparing fractions, decimals, and percentages and using them in relation to number.

Solving problems involving finding ratios of numbers.

Developing their knowledge of algebra and using it to solve problems.

Addition, subtraction, multiplication, and division continue to be a big focus in key stage 2. Children continue to learn a wide range of strategies to help them to find answers, using resources, pictorial representations, and by mentally calculating answers. They will focus on:

- Adding and subtracting numbers using a wide range of strategies.
- Learning a range of strategies to solve multiplication and division.
- Counting in multiples and learning times tables up to 12.
- Recognising, finding, and naming different fractions of shapes, objects, lengths, and quantities.

Shape, space, and measure continue to be a big area of focus in key stage 2. The children will focus on:

- Recognising and describing the properties of 2D and 3D shapes.
- Finding the length, perimeter, area, and volume of different shapes.
- Using reading, writing, and converting between standard units and measurements.
- Using mathematical vocabulary to describe position, direction, and movement.
- Describing, ordering, comparing, and measuring mass and capacity.
- Estimating, comparing, and calculating amounts using coins.
- Telling the time confidently.
- Using data to draw charts and graphs, and finding the mean, median, and mode of numbers.

Children in key stage 2 also focus largely on investigations and problem solving.