Maths: what will your child learn in year 6?

Number and Place Value:

- Reading, writing, ordering and comparing numbers to 10,000,000
- Calculating intervals across zero

Calculating:

- Multiplying four-digit numbers by two-digit numbers using long multiplication
- Dividing four-digit numbers by two-digit numbers using long division
- Identifying common factors, common multiples and prime numbers
- Solving multi-step problems involving all four operations

Fractions decimals and percentages:

- Simplifying fractions
- Comparing and ordering fractions
- Adding and subtracting fractions with different denominators
- Multiplying pairs of proper fractions, giving the answer in its simplest form
- Dividing proper fractions by whole numbers
- Multiplying and dividing numbers by 10, 100 and 1000
- Multiplying one-digit numbers with up to two decimal places by whole numbers
- Using written division methods in cases where the answer has up to two decimal places

Ratio and proportion:

- Finding percentages of amounts
- Solving problems involving shapes and scale factors

Algebra:

- Using simple formulae
- Generating and describing linear number sequences
- Express missing number problems algebraically
- Find pairs of numbers that satisfy an equation with two unknowns

Measurement:

- Converting between units of measurement, using decimal notation up to three decimal places
- Working out the perimeter and area of shapes (including parallelograms and triangles)
- Working out the volume of cubes and cuboids

Our Vision is for our children to experience 'Life in all its fullness' (John 10:10).
Following the Christian inspiration of Jesus, our children will flourish and enable others to grow. Our school will be a place where aspiration and hope enable the growth of knowledge, wisdom and skills. Our children will feel good about themselves, enjoy learning and achieving and become positive members of the community.

Friendship
Wisdom
Endurance
Hope
Koinonia

'Life in all its fullness'
John 10:10

Geometry:

- Drawing a 2D shape using given dimensions and angles
- Finding unknown angles in any triangle, quadrilateral and regular polygon
- Illustrating and naming parts of circles, including radius, diameter and circumference
- Recognising angles where they meet at a point, are on a straight line or are vertically opposite
- Plotting coordinates on all four quadrants
- Drawing and translating simple shapes on the coordinate plane and reflecting them in the axes

Statistics:

- Interpreting and constructing pie charts and line graphs and use these to solve problems
- Calculating and interpreting the mean as an average

Maths at home:

- Continue to practise maths in everyday activities

- Children in year 6 will regularly bring home maths revision books.

  It is helpful if you identify a space at home where they can complete this revision, for example a small table or desk in a quiet area or even the kitchen table at a quieter time. Make sure there is sufficient lighting for your child to work.

  Encourage independence by instilling a routine – work towards your child independently getting out their revision book and starting work at a set time, without needing to be reminded.

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