



Year 6 Mathematics Schema: 2025-2026

<u>Autumn Term</u>	<u>Spring Term</u>	<u>Summer Term</u>
Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit		
<u>First Half Term (8 weeks)</u>	<u>First Half Term (6 weeks)</u>	<u>First Half Term (6 weeks)</u>
<u>Number and Place Value</u> *Read, write, order and compare numbers up to 10, 000 000 and determine the value of each digit *Round any whole number to a required degree of accuracy *Use negative numbers in context, and calculate intervals across zero *Solve number and practical problems that involve all of the above <u>Number - Addition and Subtraction</u> *Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why <u>Number - Multiplication and Division</u> *Perform mental calculations, including with mixed operations and large numbers *Identify common factors, common multiples and prime numbers *Solve problems involving addition, subtraction, multiplication and division *Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication *Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.	<u>Number - Percentages</u> *Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts *Solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison <u>Number - Decimals</u> *Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places *Multiply one-digit numbers with up to two decimal places by whole numbers *Use written division methods in cases where the answer has up to two decimal places *Solve problems which require answers to be rounded to specified degrees of accuracy <u>Ratio and Proportion</u> *Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts *Solve problems involving similar shapes where the scale factor is known or can be found *Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples	<u>Measurement</u> *Solve problems involving the calculation & conversion of units of measure, using decimal notation up to three decimal places where appropriate *Use, read, write & convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places *Convert between miles and kilometres <u>Algebra</u> *Use simple formulae *Generate and describe linear number sequences *Express missing number problems algebraically *Find pairs of numbers that satisfy an equation with two unknowns *Enumerate possibilities of combinations of two variables. <u>Geometry - Properties of shapes</u> *Illustrate & name parts of circles, including radius, diameter and circumference & know that the diameter is twice the radius <u>Statistics</u> *Interpret & construct pie charts and line graphs and use these to solve problems



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		*Calculate & interpret the mean as an average.
<u>Second Half Term (7 weeks)</u>	<u>Second Half Term (5 weeks)</u>	<u>Second Half Term (7 weeks)</u>
<u>Number – Addition, Subtraction Multiplication and Division</u> *Use their knowledge of the order of operations to carry out calculations involving the four operations <u>Number – Multiplication and Division</u> *Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context *Divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context *Solve problems which require answers to be rounded to specified degrees of accuracy *Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy. <u>Number – Fractions</u> *Use common factors to simplify fractions; use common multiples to express fractions in the same denomination *Compare and order fractions, including fractions > 1 *Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions *Multiply simple pairs of proper fractions, writing the answer in its simplest form (for example: $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$)	<u>Geometry – Angles</u> *Draw 2-D shapes using given dimensions and angles *Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles *Find unknown angles in any triangles *Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons <u>Geometry – 2-d Shapes</u> *Compare and classify geometric shapes based on their properties <u>Geometry – 3-d Shapes</u> *Recognise, describe and build simple 3-D shapes, including making nets <u>Geometry – Position and Direction</u> *Describe positions on the full coordinate grid (all four quadrants) *Draw and translate simple shapes on the coordinate plane and reflect them in the axes <u>Measurement – Area and Perimeter</u> *Recognise that shapes with the same areas can have different perimeters and vice versa *Recognise when it is possible to use formulae for area and volume of shapes *Calculate the area of parallelograms and triangles <u>Measurement – Volume</u> *Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic	<u>*Maths Real Life through WRM*</u> <u>Ratio and Proportion</u> *Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts *Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why <u>Geometry – 3-d Shapes</u> *Recognise, describe and build simple 3-D shapes, including making nets <u>Measurement – Area and Perimeter</u> *Recognise when it is possible to use formulae for area and volume of shapes <u>Number – Percentages</u> *Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts *Solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison



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	centimetres (cm ³) and cubic metres (m ³), and extending to other units [for example, mm ³ and km ³].	
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