



## Year 5 Maths Curriculum Overview

T1	Place Value	Place Value	Place Value	Mental Addition and Subtraction	Addition and subtraction	Addition and subtraction	Mental Multiplication and division	Mental multiplication and division
Y5	<ul style="list-style-type: none"><li>• Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit</li><li>• Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000</li><li>• Multiply and divide whole numbers by 10, 100 and 1000</li><li>• Link with convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)</li></ul>	<ul style="list-style-type: none"><li>• Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents</li><li>• Read, write, order and compare numbers with up to three decimal places</li><li>• Multiply and divide decimals by 10, 100 and 1000</li><li>• Link with convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)</li></ul>		<ul style="list-style-type: none"><li>• Add and subtract numbers mentally with increasingly large numbers</li><li>• Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy</li><li>• Solve addition and subtraction problems mentally</li></ul>	<ul style="list-style-type: none"><li>• Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)</li><li>• Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy</li><li>• Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.</li><li>• Include decimal addition and subtraction and measures problems</li></ul>	<b>Square/prime and cube numbers</b> <ul style="list-style-type: none"><li>• Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers</li><li>• Establish whether a number up to 100 is prime and recall prime numbers up to 19</li><li>• Recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3)</li></ul>	<ul style="list-style-type: none"><li>• Revise multiply 3 single digit numbers</li><li>• Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers</li><li>• Multiply and divide numbers mentally drawing upon known facts</li><li>• Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes</li><li>• Link Cube numbers to volume</li></ul>	<ul style="list-style-type: none"><li>• Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers</li><li>• Solve problems involving multiplication including using their knowledge of factors and multiples, squares and cubes</li></ul>

T2	X and division	Geometry	Fractions	Fractions	Time	4 rules through Statistics	Assess and Review
Y5	<ul style="list-style-type: none"> <li>Calculate and compare the <b>area of rectangles</b> (including squares), and including using standard units, square centimetres (cm<sup>2</sup>) and square metres (m<sup>2</sup>)</li> <li>Areas of rectangles mixed units cm/mm etc</li> <li>Use the properties of rectangles to deduce related facts and find missing lengths</li> </ul>	<ul style="list-style-type: none"> <li>Know angles are measured in degrees: estimate and compare acute, obtuse, and reflex angles</li> <li>Draw given angles, and measure them in degrees (°)</li> <li>Identify: angles at a point and one whole turn (total 360°) angles at a point on a straight line and a turn (total 180°), other multiples of 90°</li> </ul>	<ul style="list-style-type: none"> <li>Compare and order fractions whose denominators are all multiples of the same number</li> <li>Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths</li> <li>Read and write decimal numbers as fractions</li> <li>Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements <math>&gt; 1</math> as a mixed number</li> </ul>	<ul style="list-style-type: none"> <li>Add and subtract fractions with the same denominator and denominators that are multiples of the same number</li> </ul>	<ul style="list-style-type: none"> <li>Revisit 12- and 24-hour clock and problem solving with timetables.</li> <li>Revise time conversion and facts</li> <li>Read and interpret tables and charts.</li> </ul>	<ul style="list-style-type: none"> <li>Solve comparison, sum and difference problems using information presented in a line graph.</li> </ul>	<ul style="list-style-type: none"> <li>Gaps analysis for term 2 and review</li> </ul>

T3	Place Value	Addition and Subtraction through Perimeter and length	Multiplication through area if mixed	Division	Division	Fractions
Y5	<ul style="list-style-type: none"> <li>Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000</li> <li>Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero</li> <li>Solve number problems and practical problems that involve all of the above</li> <li>Round decimals with two decimal places to the nearest whole number and to one decimal place</li> </ul>	<ul style="list-style-type: none"> <li>Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres</li> <li>Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling.</li> <li>Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)</li> <li>Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy</li> <li>Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.</li> </ul>	<ul style="list-style-type: none"> <li>Revisit x of 4 by 1 in problem solving</li> <li>Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context</li> </ul>		<ul style="list-style-type: none"> <li>Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling.</li> <li>Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)</li> </ul>	<ul style="list-style-type: none"> <li>Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal</li> <li>Solve problems which require knowing percentage and decimal equivalents of <math>\frac{1}{2}</math>, <math>\frac{1}{4}</math>, <math>\frac{1}{5}</math>, <math>\frac{2}{5}</math>, <math>\frac{4}{5}</math> and those fractions with a denominator of a multiple of 10 or 25.</li> </ul>

T4	Geometry	Geometry	Fractions and decimals	Fractions and Decimals	Multiplication	Assess and Review
Y5	<ul style="list-style-type: none"> <li>Distinguish between regular and irregular polygons based on reasoning about equal sides and angles</li> <li>Use the properties of rectangles to deduce related facts and find missing lengths and angles</li> </ul>	<ul style="list-style-type: none"> <li>Identify 3-D shapes, including cubes and other cuboids, from 2-D representations.</li> <li>Describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed.</li> </ul>	<ul style="list-style-type: none"> <li>Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams</li> </ul>	<ul style="list-style-type: none"> <li>Revisit and consolidate fractions through problem solving</li> </ul>	<ul style="list-style-type: none"> <li>Problem solving with multiplication check using inverse</li> </ul>	<ul style="list-style-type: none"> <li>Gaps analysis and review</li> </ul>

<b>T5</b>	<b>Statistics</b>	<b>Time</b>	<b>Addition and Subtraction</b>	<b>Multiplication and Division</b>	<b>Mass/Volume and Capacity</b>
<b>Y5</b>	<ul style="list-style-type: none"> <li>• Read and interpret charts, tables and graphs.</li> <li>• Problem solve with above.</li> </ul>	<ul style="list-style-type: none"> <li>• Complete, read and interpret information in tables, including timetables.</li> <li>• Solve problems involving converting between units of time</li> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>• Find missing lengths and angles revision problems linked to area and perimeter</li> <li>• Empty boxes in calculations</li> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>• Problem solve with x and division</li> </ul>	<ul style="list-style-type: none"> <li>• Estimate, compare and calculate different measures through problems</li> <li>• Round mass and volume</li> <li>• Solve simple measure problems involving fractions and decimals to three decimal places.</li> </ul>

<b>T6</b>	<b>Place Value</b>	<b>Calculation &amp; Measures</b>	<b>Calculation &amp; Measures</b>	<b>Fractions</b>	<b>Geometry</b>	<b>Transition x 3 weeks</b>
<b>Y5</b>	Problem solving with place value and number properties	Problem solving with 4 rules applied to measures and missing boxes, known facts	Problem solving with 4 rules applied to measures and missing boxes, known facts	Problem solving with fractions,	Problem solving geometry	Y5 non negotiables for Y6, skill and application