

# Year 5 Long Term Maths Plan 2024-2025

Following the White Rose Maths Small Steps.

Each bullet point is a small step

<p style="writing-mode: vertical-rl; transform: rotate(180deg);"><b>Autumn 1</b></p>	<p><b>Number - Place Value</b></p> <ul style="list-style-type: none"> <li>• Numbers to 10,000</li> <li>• Numbers to 100,000</li> <li>• Numbers to 1,000,000</li> <li>• Read and write numbers to 1,000,000</li> </ul>	<p><b>Number - Place Value</b></p> <ul style="list-style-type: none"> <li>• Partition numbers to 1,000,000</li> <li>• Number lines to 1,000,000</li> <li>• Compare and order numbers to 100,000</li> <li>• Compare and order numbers to 1,000,000</li> </ul>	<p><b>Number - Addition &amp; Subtraction</b></p> <ul style="list-style-type: none"> <li>• Mental strategies.</li> <li>• Add whole numbers with more than 4 digits.</li> <li>• Subtract whole numbers with more than 4 digits.</li> </ul>	<p><b>Geometry</b></p> <ul style="list-style-type: none"> <li>• Understand and use degrees</li> <li>• Classify angles</li> <li>• Estimate angles</li> <li>• Measure angles up to 180</li> <li>• Draw lines and angles accurately</li> <li>• Calculate angles around a point</li> <li>• Calculate angles on a straight line</li> </ul>	<p><b>Measures</b></p> <ul style="list-style-type: none"> <li>• Perimeter of rectangles</li> <li>• Perimeter of rectilinear shapes</li> <li>• Perimeter of polygons</li> <li>• Area of rectangles</li> <li>• Area of compound shapes</li> </ul> <p>Estimate area</p>
<p style="writing-mode: vertical-rl; transform: rotate(180deg);"><b>Autumn 2</b></p>	<p><b>Number - Multiplication &amp; Division</b></p> <ul style="list-style-type: none"> <li>• Multiples</li> <li>• Common multiples</li> <li>• Factors</li> <li>• Common factors</li> <li>• Prime numbers</li> </ul>	<p><b>Number – Fractions</b></p> <ul style="list-style-type: none"> <li>• Find fractions equivalent to a unit fraction</li> <li>• Find fractions equivalent to a non-unit fraction</li> <li>• Recognise equivalent fractions</li> </ul>	<p><b>Number – decimals</b></p> <ul style="list-style-type: none"> <li>• Decimals up to 2 decimal places</li> <li>• Equivalent fractions and decimals (tenths)</li> <li>• Equivalent fractions and decimals (hundredths)</li> <li>• Equivalent fractions and decimals</li> <li>• Thousandths as fractions.</li> <li>• Thousandths as decimals</li> <li>• Thousandths on a place value chart</li> </ul>	<p><b>Number - Multiplication &amp; Division</b></p> <ul style="list-style-type: none"> <li>• Multiply up to a 4 digit number by a 1 digit number</li> <li>• Multiply a 2 digit number by a 2 digit number (area model)</li> <li>• Multiply a 2 digit number by a 2 digit number</li> <li>• Multiply a 3 digit number by a 2 digit number</li> <li>• Multiply a 4 digit number by a 2 digit number</li> <li>• Solve problems with multiplication</li> </ul>	<p><b>Statistics</b></p> <ul style="list-style-type: none"> <li>• Draw line graphs</li> <li>• Read and interpret line graphs</li> <li>• Read and interpret tables</li> <li>• Two-way tables</li> <li>• Read and interpret timetables</li> </ul>

Spring 1	<p><b>Number - Place Value</b></p> <ul style="list-style-type: none"> <li>• Roman Numerals to 1000</li> <li>• Understand negative numbers</li> <li>• Count through 0 in 1s</li> <li>• Count through 0 in multiples</li> <li>• Compare and order negative numbers</li> <li>• Find the difference</li> </ul>	<p><b>Number—Place Value</b></p> <ul style="list-style-type: none"> <li>• Round to the nearest 10, 100, 1000</li> <li>• Round within 100,000</li> <li>• Round within 1,000,000</li> </ul>	<p><b>Number - Multiplication &amp; Division</b></p> <ul style="list-style-type: none"> <li>• Multiply by 10, 100 and 1000</li> <li>• Divide by 10, 100 and 1000</li> <li>• Multiples of 10, 100 and 1000</li> </ul>	<p><b>Number - Decimals</b></p> <ul style="list-style-type: none"> <li>• Order and compare decimals (same number of decimal places)</li> <li>• Order and compare any decimals with up to 3 decimal places</li> </ul>	<p><b>Geometry</b></p> <ul style="list-style-type: none"> <li>• Read and plot coordinates</li> <li>• Problem solving with coordinates</li> <li>• Translation</li> <li>• Translation with coordinates</li> <li>• Lines of symmetry</li> <li>• Reflection in horizontal and vertical lines</li> </ul>	<p><b>Number - Fractions</b></p> <ul style="list-style-type: none"> <li>• Compare fractions less than 1</li> <li>• Order fractions less than 1</li> <li>• Compare and order fractions greater than 1</li> </ul>
	Spring 2	<p><b>Number - Multiplication &amp; Division</b></p> <ul style="list-style-type: none"> <li>• Short division</li> <li>• Divide a 4 digit number by a 1 digit number</li> <li>• Divide with remainders</li> <li>• Efficient division</li> <li>• Solve problems with multiplication and division</li> </ul>	<p><b>Geometry</b></p> <ul style="list-style-type: none"> <li>• Lengths and angles in shapes</li> <li>• Regular and irregular polygons</li> <li>• 3D shapes</li> </ul>	<p><b>Number - Fractions</b></p> <ul style="list-style-type: none"> <li>• Convert improper fractions to mixed numbers</li> <li>• Convert mixed numbers to improper fractions</li> </ul>	<p><b>Number – decimals</b></p> <ul style="list-style-type: none"> <li>• Use known facts to add and subtract decimals within 1</li> <li>• Complements to 1</li> <li>• Add and subtract decimals across 1</li> <li>• Add decimals with the same number of decimal places</li> <li>• Subtract decimals with the same number of decimal places</li> <li>• Add decimals with different numbers of decimal places</li> <li>• Subtract decimals with different numbers of decimal places</li> <li>• Efficient strategies for adding and subtracting decimals</li> </ul>	

<b>Summer 1</b>	<p><b>Number - Place Value</b></p> <ul style="list-style-type: none"> <li>• Powers of 10</li> <li>• 10/100/1000/10,000/100,000 more or less</li> </ul>	<p><b>Number—Addition &amp; Subtraction</b></p> <p><b>RECAP – Addition and subtraction – more than 4 digits</b></p> <ul style="list-style-type: none"> <li>• Round to check answers</li> <li>• Inverse operations (addition and subtraction)</li> </ul>	<p><b>Number - Fractions</b></p> <ul style="list-style-type: none"> <li>• Add and subtract fractions with the same denominator</li> <li>• Add fractions within 1</li> <li>• Multiply a unit fraction by an integer</li> <li>• Multiply a non-unit fraction by an integer</li> <li>• Multiply a mixed number by an integer</li> </ul>	<p><b>Measures</b></p> <ul style="list-style-type: none"> <li>• Convert units of time</li> <li>• Calculate with timetables</li> <li>• Kilograms and kilometres</li> <li>• Millimetres and millilitres</li> <li>• Convert units of length               <ul style="list-style-type: none"> <li>• Convert between metric and imperial units</li> </ul> </li> </ul>		<p><b>Number - Decimals</b></p> <ul style="list-style-type: none"> <li>• Decimal sequences</li> <li>• Multiply by 10,100,1000</li> <li>• Divide by 10, 100, 1000</li> <li>• Multiply and divide decimals – missing values</li> </ul>
<b>Summer 2</b>	<p><b>Number - Multiplication &amp; Division</b></p> <ul style="list-style-type: none"> <li>• Square numbers</li> <li>• Cube numbers</li> </ul>	<p><b>Number—Addition &amp; Subtraction</b></p> <ul style="list-style-type: none"> <li>• Multi-step addition and subtraction problems</li> <li>• Compare calculations</li> <li>• Find missing numbers</li> </ul>	<p><b>Number—Percentages</b></p> <ul style="list-style-type: none"> <li>• Round to the nearest whole number</li> <li>• Round to 1 dp</li> <li>• Understand %</li> <li>• % as fractions</li> <li>• % as decimals</li> <li>• Equivalent fractions, decimals and %</li> </ul>	<p><b>Number – fractions</b></p> <ul style="list-style-type: none"> <li>• Calculate a fraction of a quantity</li> <li>• Fraction of an amount</li> <li>• Find the whole</li> <li>• Use fractions as operators</li> </ul>	<p><b>Measures</b></p> <ul style="list-style-type: none"> <li>• Cubic centimetres</li> <li>• Compare volume</li> <li>• Estimate volume</li> <li>• Estimate capacity</li> </ul>	