

# Year 6 Long Term Maths Plan 2024 - 2025

Following the White Rose Maths Small Steps.  
Each bullet point is a small step.

Autumn 1	<b>Number - Place Value</b> <ul style="list-style-type: none"> <li>• Numbers to 1,000,000</li> <li>• Numbers to 10,000,000</li> <li>• Read &amp; write numbers to 10,000,000</li> <li>• Number line to 10,000,000</li> </ul>	<b>Types of Number</b> <ul style="list-style-type: none"> <li>• Common multiples</li> <li>• Common factors</li> <li>• Primes to 100</li> <li>• Square and cube numbers</li> </ul>	<b>Geometry - Angles</b> <ul style="list-style-type: none"> <li>• Measure and classify angles</li> <li>• Calculate angles</li> <li>• Vertically opposite angles</li> </ul>	<b>Number – Decimal place value</b> <ul style="list-style-type: none"> <li>• Place value within 1</li> <li>• Place value – integers and decimals</li> <li>• Add and subtract decimals</li> <li>• Round decimals</li> </ul>	<b>Number – Negative numbers/x &amp; 10, 100, 1000</b> <ul style="list-style-type: none"> <li>• Negative Numbers</li> <li>• Multiply by 10, 100 &amp; 1000</li> <li>• Divide by 10, 100 &amp; 1000</li> </ul>	<b>Recaps</b>  <i>Roman numerals revision</i>  <i>Converting everyday time durations</i>  <b>SATs entry assessment</b>
Autumn 2	<b>Number – Place Value</b> <ul style="list-style-type: none"> <li>• Compare and order any integers</li> <li>• Powers of 10</li> <li>• Round any integer</li> </ul>	<b>Measurement – Converting units</b> <ul style="list-style-type: none"> <li>• Metric measures</li> <li>• Convert metric measures</li> <li>• Calculate with metric measures</li> </ul>	<b>Geometry – 2D &amp; 3D shapes</b>  <i>(Revise names and properties of 2D and 3D shapes)</i> <ul style="list-style-type: none"> <li>• Draw shapes accurately</li> <li>• Nets of 3D shapes</li> </ul>	<b>Number – Equivalent Fractions</b> <ul style="list-style-type: none"> <li>• Equivalent fractions and simplifying</li> <li>• Equivalent fractions on a number line</li> <li>• Compare and order (denominator)</li> <li>• Compare and order (numerator)</li> </ul>	<b>Measurement – Area and Perimeter</b> <ul style="list-style-type: none"> <li>• Shapes- same area</li> <li>• Area and perimeter</li> <li>• Area of a triangle – counting squares</li> <li>• Area of a right angled triangle</li> <li>• Area of any triangle</li> <li>• Area of a parallelogram</li> </ul>	<b>Proportion</b> <ul style="list-style-type: none"> <li>• Proportion problems</li> <li>• Recipes</li> </ul>  <b>Xmas maths</b>
Spring 1	<b>Number – Fractions</b> <ul style="list-style-type: none"> <li>• Add and subtract simple fractions</li> <li>• Add and subtract any 2 fractions</li> <li>• Add mixed numbers</li> <li>• Subtract mixed numbers</li> <li>• Multi-step problems</li> </ul>	<b>Number – Percentages/BODMAS</b> <ul style="list-style-type: none"> <li>• Understand percentages</li> <li>• Order of operations</li> <li>• Mental calculations and estimation</li> <li>• Reason from known facts</li> </ul>	<b>Measurement – Imperial measures</b> <ul style="list-style-type: none"> <li>• Miles and kilometres</li> <li>• Imperial measures</li> </ul>  <i>(Reading scales and measuring with conversions)</i>	<b>Geometry – Position and Direction</b> <ul style="list-style-type: none"> <li>• Translations</li> <li>• reflections</li> </ul>	<b>Measurement - Volume</b> <ul style="list-style-type: none"> <li>• Volume – counting cubes</li> <li>• Volume of a cuboid</li> </ul>	<b>Recaps</b>  <i>24 hr clock</i>  <i>Timetables</i>  <b>SATs assessment</b>

<b>Spring 2</b>	<b>Number – Multiplying Fractions</b> <ul style="list-style-type: none"> <li>• Multiply fractions by integers</li> <li>• Multiply fractions by fractions</li> </ul>	<b>Number—Dividing Fractions</b> <ul style="list-style-type: none"> <li>• Divide a fraction by an integer</li> <li>• Divide any fraction by an integer</li> <li>• Mixed questions with fractions</li> </ul>	<b>Statistics – Graphs</b> <ul style="list-style-type: none"> <li>• Line graphs</li> <li>• Dual bar graphs</li> <li>• Read and interpret pie charts</li> <li>• Pie charts with percentages</li> <li>• Draw pie charts</li> </ul>	<b>Geometry – Angles in a shape</b> <ul style="list-style-type: none"> <li>• Angles in a triangle</li> <li>• Angles in a triangle – special cases</li> <li>• Angles in a triangle – missing angles</li> <li>• Angles in quadrilaterals</li> <li>• Angles in polygons</li> </ul>	<b>Algebra</b> <ul style="list-style-type: none"> <li>• 1-step function machines</li> <li>• 2-step function machines</li> <li>• Form expressions</li> <li>• Substitution</li> <li>• Formulae</li> <li>• Form equations</li> </ul>		<b>Statistics – Mean/division</b> <ul style="list-style-type: none"> <li>• The mean</li> <li>• Division using factors</li> <li>• Rules of divisibility</li> </ul>
<b>Summer 1</b>	<b>Number – Equivalent frac/Dec/Perc</b> <ul style="list-style-type: none"> <li>• Decimal and fraction equivalents</li> <li>• Fractions as division</li> <li>• Fractions to percentages</li> <li>• Equivalent fractions, decimals, percentages</li> <li>• Order fractions, decimals, percentages</li> </ul>	<b>Algebra</b> <ul style="list-style-type: none"> <li>• Solve 1-step equations</li> <li>• Solve 2-step equations</li> <li>• Find pairs of values</li> <li>• Solve problems with 2 unknowns</li> </ul>	<b>Geometry - Coordinates</b> <ul style="list-style-type: none"> <li>• The first quadrant</li> <li>• Read and plot points on 4 quadrants</li> <li>• Solve problems with coordinates</li> </ul>	<b>Ratio</b> <ul style="list-style-type: none"> <li>• Add or multiply?</li> <li>• Use ratio language</li> <li>• Introduction to the ratio symbol</li> <li>• Ratio and fractions</li> <li>• Ratio problems</li> </ul>	<b>Geometry/ratio – Circles/ Scale drawings</b> <ul style="list-style-type: none"> <li>• Circles</li> </ul> (Rotational symmetry) <ul style="list-style-type: none"> <li>• Scale drawing</li> <li>• Use scale factors</li> <li>• Similar shapes</li> </ul>		<b>Recap</b>  <i>Missing values in formal calculations (boxes)</i>  <b>SATs Tests</b>
<b>Arithmetic &amp; Fluency</b>	<b>Number - Addition/Subtraction</b> <ul style="list-style-type: none"> <li>• Add and subtract Integers (A&amp;S)</li> </ul>	<b>Number - Multiplication</b> <ul style="list-style-type: none"> <li>• Multiply up to a 4-digit number by a 2-digit number</li> <li>• Solve problems with Multiplication</li> <li>• Multiply decimals by integers (Dec)</li> </ul>	<b>Number - Division</b> <ul style="list-style-type: none"> <li>• Divide decimals by integers</li> <li>• Multiply and divide decimals in context</li> <li>• Short division</li> <li>• Introduction to long division</li> <li>• Long division with remainders</li> <li>• Solve problems with division</li> <li>• Solve multi-step probs</li> </ul>	<b>Number - Fractions/Percentage of an amount</b> <ul style="list-style-type: none"> <li>• Fraction of an amount</li> <li>• Fraction of an amount – find the whole</li> <li>• Percentage of an amount – 1 step</li> <li>• Percentage of an amount – multistep</li> <li>• Percentages – missing values</li> </ul>	<b>Summer 2</b>	<b>Themed projects, Consolidation and problem-solving</b> <ul style="list-style-type: none"> <li>• White Rose Bakery</li> <li>• White Rose Tours</li> <li>• White Rose Futures</li> </ul>	