

# Year 6 – Yearly Overview - Autumn



	Week 1 - 2 BLOCK 1	Week 3 - 6 BLOCK 2	Week 7 - 10 BLOCK 4	Week 11	Week 12
	<b>Number: Place Value</b>	<b>Number: Addition, Subtraction, Multiplication and Division</b>	<b>Number: Fractions</b>	<b>Geometry: Position and Direction</b>	Consolidation
<b>White Rose Maths Small Steps</b>	<ul style="list-style-type: none"> <li>Numbers to ten million.</li> <li>Compare an order any number.</li> <li>Round any numbers.</li> <li>Negative numbers.</li> </ul> <p><b>Key vocab</b> Compare, round, negative</p>	<ul style="list-style-type: none"> <li>Add and subtract whole numbers.</li> <li>Multiply up to 4-digit by 1-digit number.</li> <li>Short division.</li> <li>Division using factors.</li> <li>Long division (1).</li> <li>Long division (2).</li> <li>Long division (3).</li> <li>Long division (4).</li> <li>Common factors.</li> <li>Common multiples.</li> <li>Primes.</li> <li>Squares and cubes.</li> <li>Order of operations.</li> <li>Mental calculations and estimation.</li> <li>Reasoning from known facts.</li> </ul> <p><b>Key vocab</b> Whole number, common factors, common multiples, prime, squared, cubed. Operation, estimation</p>	<ul style="list-style-type: none"> <li>Simplify fractions.</li> <li>Fractions on a number line.</li> <li>Compare &amp; order (denominator).</li> <li>Compare &amp; order (numerator).</li> <li>Add &amp; subtract fractions (1).</li> <li>Add &amp; subtract fractions (2).</li> <li>Adding fractions.</li> <li>Subtracting fractions.</li> <li>Mixed addition and subtraction.</li> <li>Multiply fractions by integers.</li> <li>Multiply fractions by fractions.</li> <li>Divide fractions by integers (1).</li> <li>Divide fractions by integers (2).</li> <li>Four rules with fractions.</li> <li>Fraction of an amount.</li> <li>Finding the whole.</li> </ul> <p><b>Key vocab</b> Fraction, compare, order, denominator, integers, whole</p>	<ul style="list-style-type: none"> <li>Coordinates in the first quadrant.</li> <li>Coordinate in four quadrants.</li> <li>Translations.</li> <li>Reflections.</li> </ul> <p><b>Key vocab</b> Quadrant, translation, reflection</p>	All
<b>National Curriculum Link</b>	<ul style="list-style-type: none"> <li>Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit.</li> <li>Round any whole number to a required degree of accuracy.</li> <li>Use negative numbers in context, and calculate intervals across zero.</li> <li>Solve number and practical problems that involve all of the above.</li> </ul>	<ul style="list-style-type: none"> <li>Solve addition and subtraction multi step problems in contexts, deciding which operations and methods to use and why.</li> <li>Multiply multi-digit number up to 4 digits by a 2-digit number using the formal written method of long multiplication.</li> <li>Divide numbers up to 4 digits by a 2-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.</li> <li>Divide numbers up to 4 digits by a 2-digit number using the formal written method of short division, interpreting remainders according to the context.</li> <li>Perform mental calculations, including with mixed operations and large numbers.</li> <li>Identify common factors, common multiples and prime numbers.</li> <li>Use their knowledge of the order of operations to carryout calculations involving the four operations.</li> <li>Solve problems involving addition, subtraction, multiplication and division.</li> <li>Use estimation to check answers to calculations and determine in the context of a problem, an appropriate degree of accuracy.</li> </ul>	<ul style="list-style-type: none"> <li>Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.</li> <li>Compare and order fractions, including fractions &gt;1.</li> <li>Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.</li> <li>Multiply simple pairs of proper fractions, writing the answer in its simplest form (e.g. <math>1/4 \times 1/2 = 1/8</math>).</li> <li>Divide proper fractions by whole numbers (e.g. <math>1/3 \div 2 = 1/6</math>).</li> <li>Associate a fraction with division to calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. 3/8).</li> <li>Identify the value of each digit to three decimal places and multiply and divide numbers by 10, 100 and 1000 where the answers are up to three decimal places.</li> <li>Multiply one digit numbers with up to two decimal places by whole numbers.</li> <li>Use written division methods in cases where the answer has up to two decimal places.</li> <li>Solve problems which require answers to be rounded to specified degrees of accuracy.</li> <li>Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.</li> </ul>	<ul style="list-style-type: none"> <li>Describe positions on the full coordinate grid (all four quadrants).</li> <li>Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.</li> </ul>	All

# Year 6 – Yearly Overview - Spring



	Week 1 - 2 BLOCK 1	Week 3 - 4 BLOCK 2	Week 5 - 6 BLOCK 3	Week 7 BLOCK 4	Week 8 - 9 BLOCK 5	Week 10 - 11 BLOCK 6	Week 12
	<b>Number: Decimals</b>	<b>Number: Percentages</b>	<b>Number: Algebra</b>	<b>Measurement: Converting Units</b>	<b>Measurement: Perimeter, Area and Volume</b>	<b>Number: Ratio</b>	Consolidation
<b>White Rose Maths Small Steps</b>	<ul style="list-style-type: none"> <li>Three decimal places.</li> <li>Multiply by 10, 100 and 1,000.</li> <li>Divide by 10, 100 and 1,000.</li> <li>Multiply decimals by integers.</li> <li>Divide decimals by integers.</li> <li>Division to solve problems.</li> <li>Decimals as fractions.</li> <li>Fractions to decimals (1).</li> <li>Fractions to decimals (2).</li> </ul> <p><b>Key vocab</b> Integers</p>	<ul style="list-style-type: none"> <li>Fractions to percentages.</li> <li>Equivalent FDP.</li> <li>Percentage of an amount (1).</li> <li>Percentage of an amount (2).</li> <li>Percentages – missing values.</li> <li>Percentage increase and decrease.</li> <li>Order FDP.</li> </ul> <p><b>Key vocab</b> Percentage, FDP, increase, decrease</p>	<ul style="list-style-type: none"> <li>Find a rule – one step.</li> <li>Find a rule – two step.</li> <li>Use an algebraic rule.</li> <li>Substitution.</li> <li>Formulae.</li> <li>Word problems.</li> <li>Solve simple one step equations.</li> <li>Solve two step equations.</li> <li>Find pairs of values.</li> <li>Enumerate possibilities.</li> </ul> <p><b>Key vocab</b> Algebraic, equation, enumerate</p>	<ul style="list-style-type: none"> <li>Metric measures.</li> <li>Convert metric measures.</li> <li>Calculate with metric measures.</li> <li>Miles and kilometres.</li> <li>Imperial measures.</li> </ul> <p><b>Key vocab</b> Metric, imperial</p>	<ul style="list-style-type: none"> <li>Shapes – same area.</li> <li>Area and perimeter.</li> <li>Area of a triangle (1).</li> <li>Area of a triangle (2).</li> <li>Area of a triangle (3).</li> <li>Area of a parallelogram.</li> <li>Volume – counting cubes.</li> <li>Volume of a cuboid.</li> </ul> <p><b>Key vocab</b> Parallelogram, volume, cuboid</p>	<ul style="list-style-type: none"> <li>Use ratio language.</li> <li>Ratio and fractions.</li> <li>Introducing the ratio symbol.</li> <li>Calculating ratio.</li> <li>Using scale factors.</li> <li>Calculating scale factors.</li> <li>Ratio and proportion problems.</li> </ul> <p><b>Key vocab</b> Ratio, scale factors, proportion</p>	All
<b>National Curriculum Link</b>	<ul style="list-style-type: none"> <li>Identify the value of each digit in numbers given to 3 decimal places and multiply numbers by 10, 100 and 1,000 giving answers up to 3 decimal places.</li> <li>Multiply one-digit numbers with up to 2 decimal places by whole numbers.</li> <li>Use written division methods in cases where the answer has up to 2 decimal places.</li> <li>Solve problems which require answers to be rounded to specified degrees of accuracy.</li> </ul>	<ul style="list-style-type: none"> <li>Solve problems involving the calculation of percentages [for example, of measures and such as 15% of 360] and the use of percentages for comparison.</li> <li>Recall and use equivalences between simple fractions, decimals and percentages including in different contexts.</li> </ul>	<ul style="list-style-type: none"> <li>Use simple formulae.</li> <li>Generate and describe linear number sequences.</li> <li>Express missing number problems algebraically.</li> <li>Find pairs of numbers that satisfy an equation with two unknowns.</li> <li>Enumerate possibilities of combinations of two variables.</li> </ul>	<ul style="list-style-type: none"> <li>Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate.</li> <li>Use, read, write and 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 3 d.p.</li> <li>Convert between miles and kilometres.</li> </ul>	<ul style="list-style-type: none"> <li>Recognise that shapes with the same areas can have different perimeters and vice versa.</li> <li>Recognise when it is possible to use formulae for area and volume of shapes.</li> <li>Calculate the area of parallelograms and triangles.</li> <li>Calculate, estimate and compare volume of cubes and cuboids using standard units, including cm<sup>3</sup>, m<sup>3</sup> and extending to other units (mm<sup>3</sup>, km<sup>3</sup>).</li> </ul>	<ul style="list-style-type: none"> <li>Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts.</li> <li>Solve problems involving similar shapes where the scale factor is known or can be found.</li> <li>Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.</li> </ul>	All

# Year 6 – Yearly Overview - Summer



	Week 1 - 2 BLOCK 1	Week 3 - 5 BLOCK 2	Week 6 - 7 BLOCK 3	Week 8 - 11 BLOCK 4	Week 12
	<b>Geometry: Properties of Shapes</b>	<b>Problem Solving</b>	<b>Statistics</b>	<b>Investigations</b>	<b>Consolidation</b>
<b>White Rose Maths Small Steps</b>	<ul style="list-style-type: none"> <li>• Measure with a protractor.</li> <li>• Introduce angles.</li> <li>• Calculate angles.</li> <li>• Vertically opposite angles.</li> <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 special quadrilaterals.</li> <li>• Angles in regular polygons.</li> <li>• Draw shapes accurately.</li> <li>• Nets of 3D shapes.</li> </ul> <p><b>Key vocab</b> Vertical, quadrilateral, polygon, net</p>	All	<ul style="list-style-type: none"> <li>• Read and interpret line graphs.</li> <li>• Draw line graphs.</li> <li>• Use line graphs to solve problems.</li> <li>• Circles.</li> <li>• Read and interpret pie charts.</li> <li>• Pie charts with percentages.</li> <li>• Draw pie charts.</li> <li>• The mean.</li> </ul> <p><b>Key vocab</b> Interpret, pie chart, The mean</p>	All	All
<b>National Curriculum Link</b>	<ul style="list-style-type: none"> <li>• Draw 2-D shapes using given dimensions and angles.</li> <li>• Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals and regular polygons.</li> <li>• Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.</li> </ul>	All	<ul style="list-style-type: none"> <li>• Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius.</li> <li>• Interpret and construct pie charts and line graphs and use these to solve problems.</li> <li>• Calculate the mean as an average.</li> </ul>	All	All