



Autumn 1 (7 weeks)	Autumn 2 (8 weeks)	Spring 1 (6 weeks)	Spring 2 (5 weeks)	Summer 1 (6 weeks)	Summer 2 (7 weeks)
<p><b>Place Value- Week 1-3</b></p> <ol style="list-style-type: none"> <li>1. Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit</li> <li>2. Round any whole number to a required degree of accuracy</li> <li>3. Use negative numbers in context, and calculate intervals across 0</li> <li>4. Solve number and practical problems that involve all of the above</li> </ol> <p><b>Addition and Subtraction- Week 4-7</b></p> <ol style="list-style-type: none"> <li>5. Perform mental calculations, including with mixed operations and large numbers</li> <li>6. Identify common factors, common multiples and prime numbers</li> <li>7. Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why</li> <li>8. Solve problems involving addition and subtraction</li> <li>9. Use estimation to check answers to calculations</li> </ol>	<p><b>Multiplication and Division- Week 1-3</b></p> <ol style="list-style-type: none"> <li>1. Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication</li> <li>2. 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</li> <li>3. 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</li> <li>4. Use their knowledge of the order of operations to carry out calculations involving the 4 operations</li> <li>5. Solve problems involving addition, subtraction multiplication and division</li> </ol>	<p><b>Fractions, decimals and percentages- Week 1-4</b></p> <ol style="list-style-type: none"> <li>1. Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, <math>\frac{3}{8}</math>]</li> <li>2. Identify the value of each digit in numbers given to 3 decimal places and multiply and divide numbers by 10, 100 and 1,000 giving answers up to 3 decimal places</li> <li>3. Multiply one-digit numbers with up to 2 decimal places by whole numbers</li> <li>4. Use written division methods in cases where the answer has up to 2 decimal places</li> <li>5. Solve problems which require answers to be rounded to specified degrees of accuracy</li> <li>6. Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts</li> </ol>	<p><b>Geometry Properties of Shape- Week 1-2</b></p> <ol style="list-style-type: none"> <li>1. Draw 2-D shapes using given dimensions and angles</li> <li>2. Recognise, describe and build simple 3-D shapes, including making nets</li> <li>3. Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons</li> <li>4. Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius</li> <li>5. Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles</li> </ol> <p><b>Geometry Position and Direction Week 3</b></p> <ol style="list-style-type: none"> <li>6. Describe positions on the full coordinate grid (all 4 quadrants)</li> <li>7. Draw and translate simple shapes on the</li> </ol>	<p><b>SATs WEEK</b></p> <p><b>Measurement: Area, Perimeter and Volume- Week 1-3</b></p> <ol style="list-style-type: none"> <li>1. Recognise that shapes with the same areas can have different perimeters and vice versa</li> <li>2. Recognise when it is possible to use formulae for area and volume of shapes</li> <li>3. Calculate the area of parallelograms and triangles</li> <li>4. Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm<sup>3</sup>) and cubic metres (m<sup>3</sup>), and extending to other units [for example, mm<sup>3</sup> and km<sup>3</sup>]</li> </ol> <p><b>Statistics- Week 4-6</b></p> <ol style="list-style-type: none"> <li>5. Interpret and construct pie charts and line graphs and use these to solve problems</li> <li>6. Calculate and interpret the mean as an average</li> </ol>	<p><b>Algebra- Week 1-3</b></p> <ol style="list-style-type: none"> <li>1. Use simple formulae</li> <li>2. Generate and describe linear number sequences</li> <li>3. Express missing number problems algebraically</li> <li>4. Find pairs of numbers that satisfy an equation with 2 unknowns</li> <li>5. Enumerate possibilities of combinations of 2 variables</li> </ol> <p><b>Consolidation Test-based questions and Transition Preparation Week 4-6</b></p>



<p>and determine, in the context of a problem, an appropriate degree of accuracy</p>	<p><b>Fractions- Week 4-7</b></p> <p>6. Use common factors to simplify fractions; use common multiples to express fractions in the same denomination</p> <p>7. Compare and order fractions, including fractions &gt;1</p> <p>8. Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions</p> <p>9. Multiply simple pairs of proper fractions, writing the answer in its simplest form [for  <math>\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}</math> ]</p> <p>10. Divide proper fractions by whole numbers [for  <math>\frac{1}{3} \div 2 = \frac{1}{6}</math> ]</p> <p><b>ASSESSMENT WEEK</b></p>	<p><b>Ratio- Week 5-6</b></p> <p>7. Solve problems involving the relative sizes of 2 quantities where missing values can be found by using integer multiplication and division facts</p> <p>8. Solve problems involving the calculation of percentages [for example, of measures and such as 15% of 360] and the use of percentages for comparison</p> <p>9. Solve problems involving similar shapes where the scale factor is known or can be found</p> <p>10. Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples</p>	<p>coordinate plane, and reflect them in the axes</p> <p><b>Measurement: Converting Units- Week 4</b></p> <p>8. Solve problems involving the calculation and conversion of units of measure, using decimal notation up to 3 decimal places where appropriate</p> <p>9. 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 decimal places</p> <p>10. Convert between miles and kilometres</p> <p><b>ASSESSMENT WEEK</b></p>		
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See White Rose Maths to identify the smaller steps that need to be taught within each objective.

Not all small steps are necessary, use professional judgement.