

<u>Autumn Term Year 6</u>	<u>Place Value</u>	<u>Addition and Subtraction</u>	<u>Multiplication and Division</u>	<u>Fractions</u>	<u>Decimals</u>	<u>Percentages</u>	<u>Algebra</u>	<u>Ration</u>	<u>Measurements</u>	<u>Properties of Shapes of Position and Direction</u>	<u>Statistics</u>
<b>WRM Small Steps</b>	<ul style="list-style-type: none"> <li>Numbers to ten million.</li> <li>Compare an order any number.</li> </ul>	<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> </ul>	<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> </ul>	<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> </ul>	<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> </ul>	<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> </ul>	<ul style="list-style-type: none"> <li>Use ratio language.</li> <li>Ratio and fractions.</li> <li>Introducing the ratio symbol.</li> </ul>	<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>	<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>Coordinates in the first quadrant.</li> <li>Coordinate in four quadrants.</li> </ul>	<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> </ul>	
<b>NC Links</b>	<ul style="list-style-type: none"> <li>Read, write, order and compare numbers up to 10,000,000 and</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</li> </ul>	<ul style="list-style-type: none"> <li>Use common factors to simplify fractions; use common multiples to express fractions in</li> </ul>	<ul style="list-style-type: none"> <li>Identify the value of each digit in numbers given to 3 decimal</li> </ul>	<ul style="list-style-type: none"> <li>Solve problems involving the calculation of percentages [for example, of measures and such as</li> </ul>	<ul style="list-style-type: none"> <li>Use simple formulae.</li> <li>Generate and describe linear number sequences.</li> </ul>	<ul style="list-style-type: none"> <li>Solve problems involving the relative sizes of two quantities where</li> </ul>	<ul style="list-style-type: none"> <li>Solve problems involving the calculation and conversion of units of measure, using decimal</li> </ul>	<ul style="list-style-type: none"> <li>Draw 2-D shapes using given dimensions and angles.</li> <li>Describe positions on the full</li> </ul>	<ul style="list-style-type: none"> <li>Illustrate and name parts of circles, including radius, diameter</li> </ul>	

	determine the value of each digit.	written method of long multiplication. <ul style="list-style-type: none"> <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> </ul>	the same denomination. <ul style="list-style-type: none"> <li>• Compare and order fractions, including fractions <math>&gt;1</math>.</li> <li>• Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.</li> </ul>	places and multiply numbers by 10, 100 and 1,000 giving answers up to 3 decimal places. <ul style="list-style-type: none"> <li>• Multiply one-digit numbers with up to 2 decimal places by whole numbers.</li> </ul>	15% of 360] and the use of percentages for comparison. <ul style="list-style-type: none"> <li>• Recall and use equivalences between simple fractions, decimals and percentages including in different contexts.</li> </ul>	<ul style="list-style-type: none"> <li>• Express missing number problems algebraically</li> </ul>	missing values can be found by using integer multiplication and division facts.	notation up to three decimal places where appropriate. <ul style="list-style-type: none"> <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>	coordinate grid (all four quadrants).	and circumference and know that the diameter is twice the radius.	
<b>TT Statements</b>	I can read, write, order and compare numbers to at least 10,000,000 (ten million) and	I can mentally calculate using a mix of the four operations I can solve addition and subtraction	I can solve problems with more than one step and explain why I used them I can multiply numbers of up	I can use common factors and multiples to simplify fractions and express fractions in	I can explain the place value of any digit in a number with up to 3		I can use simple formulae I can create and describe linear number sequences	I can solve problems that involve the relative sizes of two things where the missing number can	I can solve problems involving the calculation and conversion of units of measure, using decimal notation up to	I can draw 2-D shapes using dimensions and angles I am given I can describe positions in	I can interpret and construct pie charts and line graphs. I can use these to

	say the value of each digit	word and practical problems I can use estimation to check answers to calculations and determine an appropriate degree of accuracy	to 4 digits by a two-digit number using a formal written method I can divide numbers of up to 4 digits by a two-digit number using a formal written method of long division, showing remainders, fractions or rounding as appropriate I can divide numbers of up to 4 digits by a two-digit number using a formal written method of short division, showing remainders, fractions or rounding as appropriate	the same denomination I can compare and order fractions including those $> 1$ I can add and subtract fractions with different denominators and mixed numbers	decimal places and multiply or divide these by 10, 100 or 1000 I can multiply numbers less than 10 with up to 2 decimal places by whole numbers		I can record missing number problems algebraically	be found by multiplying or dividing by whole numbers	three places if I need to I can use, read, write and convert between standard units. I can convert measurement of length, mass, volume and time from a smaller unit to a larger unit and vice versa. I can do this using decimal notation up to the three decimal places I can convert between miles and kilometres	all four quadrants on a full coordinate graph	solve problems I can illustrate and name parts of circles, including radius, diameter and circumference. I know that the diameter is twice the radius
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