

Year 6 Maths Medium Term Plan

Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
<p>Place Value Read and write numbers up to 10 million</p> <p>Determine the value of each digit in numbers to 10 million</p> <p>Compose and decompose numbers up to 10 million using standard and non-standard partitioning</p> <p>Understand the relationship between powers of 10 from 1 hundredth to 10 million, and use this to make a given number 10, 100, 1,000, 1 tenth, 1 hundredth or 1 thousandth times the size (multiply and divide by 10, 100 and 1,000).</p> <p>Reason about the location of any number up to 10 million in the linear number system</p> <p>Compare and order numbers up to 10 million</p> <p>Round any whole number to a required degree of accuracy Use negative numbers in context and calculate intervals across 0</p>	<p>Fractions Use common factors to simplify fractions</p> <p>Use common multiples to express fractions in the same denomination</p> <p>Compare and order fractions, including fractions > 1</p> <p>Add and subtract fractions with different denominators</p> <p>Add and subtract mixed numbers</p> <p>Multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, $1/4 \times 1/2 = 1/8$]</p> <p>Divide proper fractions by whole numbers [for example, $1/3 \div 2 = 1/6$]</p> <p>Converting Units Divide powers of 10, from 1 hundredth to 10 million, into 2, 4, 5 and 10 equal parts, and read</p>	<p>Ratio Solve problems involving the relative sizes of 2 quantities where missing values can be found by using integer multiplication and division facts</p> <p>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>Solve problems involving similar shapes where the scale factor is known or can be found</p> <p>Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples</p> <p>Algebra Use simple formulae</p> <p>Generate and describe linear number sequences</p> <p>Express missing number problems algebraically</p>	<p>Fractions, Decimals & Percentages Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, $3/8$]</p> <p>Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts</p> <p>Perimeter, Area & Volume Recognise that shapes with the same areas can have different perimeters and vice versa</p> <p>Recognise when it is possible to use formulae for area and volume of shapes</p> <p>Calculate the area of parallelograms</p> <p>Calculate the area of triangles</p>	<p>Properties of Shape Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles</p> <p>Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius</p> <p>Find unknown angles in any triangles, quadrilaterals, and regular polygons</p> <p>Draw, compose, and decompose shapes according to given properties, including dimensions, angles and area, and solve related problems.</p> <p>Compare and classify geometric shapes based on their properties and sizes</p> <p>Recognise, describe and build simple 3-D shapes, including making nets</p> <p>Position & Direction</p>	<p>Algebra Find pairs of numbers that satisfy an equation with 2 unknowns</p> <p>Enumerate possibilities of combinations of 2 variables</p> <p>Measure Solve more complex problems involving money</p> <p>Solve problems involving converting between units of time</p> <p>Ratio Solve problems involving the relative sizes of 2 quantities where missing values can be found by using integer multiplication and division facts</p>

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<p>Solve number problems and practical problems that involve all of the above</p> <p>Addition, Subtraction, Multiplication & Division</p> <p>Identify common factors, common multiples and prime numbers</p> <p>Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication</p> <p>Divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate</p> <p>Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division</p> <p>Interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context</p> <p>Perform mental calculations, including with mixed operations and large numbers</p> <p>Understand that 2 numbers can be related additively or</p>	<p>scales/number lines with labelled intervals divided into 2, 4, 5 and 10 equal parts.</p> <p>Use, read, write and convert between standard units</p> <p>Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate</p> <p>Convert 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 three decimal places</p> <p>Convert between miles and kilometres</p>	<p>Find pairs of numbers that satisfy an equation with 2 unknowns</p> <p>Enumerate possibilities of combinations of 2 variables</p> <p>Decimals</p> <p>Identify the value of each digit in numbers given to three decimal places</p> <p>Multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places</p> <p>Solve problems which require answers to be rounded to specified degrees of accuracy</p> <p>Multiply one-digit numbers with up to two decimal places by whole numbers</p> <p>Use written division methods in cases where the answer has up to two decimal places</p>	<p>Calculate volume of cubes and cuboids using standard units, including cubic centimetres (cm³) and cubic metres (m³), and extending to other units [for example, mm³ and km³]</p> <p>Estimate volume of cubes and cuboids</p> <p>Compare volume of cubes and cuboids</p> <p>Statistics</p> <p>Interpret and construct pie charts and line graphs and use these to solve problems</p> <p>Calculate and interpret the mean as an average</p>	<p>Describe positions on the full coordinate grid (all 4 quadrants)</p> <p>Draw and translate simple shapes on the coordinate plane, and reflect them in the axes</p>	
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<p>multiplicatively, and quantify additive and multiplicative relationships (multiplicative relationships restricted to multiplication by a whole number).</p> <p>Use a given additive or multiplicative calculation to derive or complete a related calculation, using arithmetic properties, inverse relationships, and place-value understanding.</p> <p>Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy</p> <p>Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why</p> <p>Solve problems involving addition, subtraction, multiplication and division</p> <p>Use their knowledge of the order of operations to carry out calculations involving the four operations</p>					
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