



TELFORD JUNIOR SCHOOL - MATHS CURRICULUM



YEAR 3	Number Place Value	Addition and Subtraction	Multiplication and Division	Fractions	Measurement	Geometry	Statistics
	<p>Recognise the place value of each digit in three-digit numbers, and compose and decompose three-digit numbers using partitioning.</p> <p>Reason about the location of any three-digit number in the linear number system, including identifying the previous and next multiple of 100 and 10</p> <p>Divide 100 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in multiples of 100 with 2, 4, 5 and 10 equal parts</p>	<p>Secure fluency in addition and subtraction facts that bridge 10, through continued practice.</p> <p>Calculate complements to 100.</p> <p>Understand the inverse relationship between addition and subtraction and that addition is commutative</p> <p>Add and subtract 1, 10 and 100 to 3-digit numbers</p> <p>Use written methods, including the column method, to add up to 3-digit numbers.</p> <p>Use written methods, including the column method, to subtract up to 3-digit numbers</p> <p>Solve addition and subtraction problems in context</p>	<p>Derive and recall multiplication facts, and corresponding division facts, in the 10, 5, 2, 4 and 8 multiplication tables.</p> <p>Count from 0 in multiples of 4, 8, 50 and 100</p> <p>Multiply and divide whole numbers by 10</p> <p>Apply known multiplication and division facts to solve problems in context</p>	<p>Interpret and write proper fractions to represent 1 or several parts of a whole that is divided into equal parts</p> <p>Reason about the location of any fraction within 1 in the linear number system.</p> <p>To add and subtract fractions with the same denominator within 1</p> <p>Find unit fractions of quantities using known division facts</p> <p>Count up and down in tenths; recognises that tenths arise from dividing an object into ten equal parts and in dividing one-digit numbers or quantities by ten.</p>	<p>Measure, compare and calculate with length, mass and capacity</p> <p>Measure the perimeter of shapes</p> <p>Tell and write the time using an analogue clock</p> <p>Convert between measures of time</p>	<p>Recognise right angles as a property of shape or a description of a turn, and identify right angles in 2D shapes presented in different orientations</p> <p>Draw and describe polygons including parallel and perpendicular lines</p> <p>Identify and make 3D shapes</p>	<p>Interpret and present data using bar charts, pictograms and tables</p>



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YEAR 4	Number Place Value	Addition and Subtraction	Multiplication and Division	Fractions	Measurement	Geometry	Statistics
	<p>Recognise the place value of each digit in four-digit numbers, and compose and decompose four-digit numbers using partitioning.</p> <p>Reason about the location of any four-digit number in the linear number system, including identifying the previous and next multiple of 1,000 and 100, and rounding to the nearest of each.</p> <p>Divide 1,000 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in multiples of 1,000 with 2, 4, 5 and 10 equal parts</p> <p>To find 1000 more or less than a given number</p> <p>To counts backwards through zero to</p>	<p>To use written methods, including the column method, to add up to 4-digit numbers.</p> <p>To use written methods, including the column method, to subtract up to 4-digit numbers</p> <p>To solve addition and subtraction problems in context</p>	<p>Derive and recall multiplication and division facts up to 12 x 12</p> <p>Understand the inverse relationship between multiplication and division</p> <p>Understand and apply the commutative and distributive properties of multiplication</p> <p>Recognise and use factor pairs to aid mental calculations</p> <p>Multiply and divide whole numbers by 10 and 100</p> <p>To develop and use written methods to record, support and explain multiplication and division of two-digit and three-digit numbers by a one-digit number</p>	<p>To recognise and show, using diagrams and number lines, families of equivalent fractions</p> <p>To add and subtract fractions with the same denominator</p> <p>To find and solve problems involving fractions of quantities</p> <p>To recognise, count and write decimal equivalents of tenths and hundredths</p> <p>To compare, order and round decimal numbers to the nearest whole number.</p>	<p>To convert between units of measure of length, mass, capacity and time</p> <p>Interpret and read scales accurately</p> <p>Solve simple measure problems involving fractions and decimals to two decimal places</p> <p>To find the area of rectilinear shapes and solve problems</p> <p>To find the perimeter of rectilinear shapes and solve problems</p>	<p>Identify lines of symmetry in 2D shapes and complete shapes with respect to a specific line of symmetry</p> <p>To identify acute and obtuse angles and compare and order angles</p> <p>To compare and classify geometric shapes, in particular triangles and quadrilaterals, based on their properties and sizes</p> <p>To describe positions on a 2D grid as coordinates in the first quadrant and plot specified points to complete a given polygon</p>	<p>To interpret and present discrete data including bar charts and pictograms</p> <p>Solve comparison, sum and difference problems using information presented in bar charts, pictograms</p> <p>Interpret and present continuous data using appropriate graphical methods, including time graphs</p>



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	include negative numbers.		including division with remainders. To solve problems involving all number operations deciding which operations and methods to use				
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YEAR 5	Number Place Value	Addition and Subtraction	Multiplication and Division	Fractions	Measurement	Geometry	Statistics
	<p>Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit</p> <p>Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000</p> <p>Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000</p> <p>Solve number problems and practical problems that involve all of the above</p> <p>Recognise the place value of each digit in numbers with up to 2 decimal places, and compose and decompose numbers with up to 2 decimal places using standard and</p>	<p>Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)</p> <p>Add and subtract numbers mentally with increasingly large numbers</p> <p>Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why</p> <p>Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy</p>	<p>Secure fluency in multiplication table facts, and corresponding division facts, through continued practice.</p> <p>Find factors and multiples of positive whole numbers, including common factors and common multiples, and express a given number as a product of 2 or 3 factors</p> <p>Multiply any whole number with up to 4 digits by any one-digit number using a formal written method.</p> <p>Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context</p>	<p>Find non-unit fractions of quantities</p> <p>Find equivalent fractions and understand that they have the same value and the same position in the linear number system</p> <p>Compare and order fractions whose denominators are all multiples of the same number</p> <p>Recognise mixed numbers and improper fractions</p> <p>Recall decimal fraction equivalents for $\frac{1}{2}$ $\frac{1}{4}$ $\frac{1}{5}$ $\frac{1}{10}$</p>	<p>Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres</p> <p>Compare areas and calculate the area of rectangles (including squares) using standard units.</p> <p>Convert between units of measure, including using common decimals and fractions</p> <p>Use all four operations to solve problems involving measure [for example, length, mass, money] using decimal notation, including scaling</p>	<p>Distinguish between regular and irregular polygons based on reasoning about equal sides and angles</p> <p>Compare angles, estimate and measure angles in degrees ($^{\circ}$) and draw angles of a given size</p> <p>Identify 3-D shapes, including cubes and other cuboids, from 2-D representations</p> <p>Use the properties of rectangles to deduce related facts and find missing lengths and angles</p> <p>Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed</p>	<p>Complete, read and interpret information in tables</p> <p>Solve comparison, sum and difference problems using information presented in a line graph</p>



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	<p>nonstandard partitioning</p> <p>Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero</p>		<p>Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000</p> <p>Recognise and use square numbers and cube numbers</p> <p>Understand what a prime number is and find prime numbers to 100</p> <p>Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes</p>				
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YEAR 6	Number Place Value	Addition and Subtraction	Multiplication and Division	Fractions, Decimals, Percentages	Measurement	Geometry	Statistics
	<p>Recognise the place value of each digit in numbers up to 10 million, including decimal fractions, and compose and decompose numbers up to 10 million using standard and nonstandard partitioning.</p> <p>Reason about the location of any number up to 10 million, including decimal fractions, in the linear number system, and round numbers, as appropriate, including in contexts</p> <p>Multiply and divide by 10, 100 and 1,000.</p> <p>Divide powers of 10, from 1 hundredth to 10 million, into 2, 4, 5 and 10 equal parts,</p>	<p>Solve addition and subtraction multi-step problems in context, deciding on methods to use and why.</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>Multiply multi-digit numbers up to four digits by a two-digit whole number using the formal written method of long multiplication.</p> <p>Divide numbers up to four digits by a two-digit number using the formal written method of short division where appropriate interpreting remainders according to the context.</p> <p>Solve problems involving multiplication and division</p> <p>Identify common factors, common multiples, square numbers and prime numbers.</p>	<p>Recognise when fractions can be simplified, and use common factors to simplify fractions.</p> <p>Recall, compare, order and use equivalences of fractions, decimals and percentages.</p> <p>Solve problems involving the calculation of percentages.</p>	<p>Use, read, write and convert between standard units of measure (length, mass, volume and time).</p> <p>Solve problems involving the calculation and conversion of units of measure using decimal notation up to 3dp.</p> <p>Calculate, estimate and compare volume of cubes and cuboids using standard units.</p>	<p>Compares and classifies geometric shapes based on their properties and sizes.</p> <p>Find unknown angles in a in any triangles, quadrilaterals and regular polygons.</p> <p>Recognise angles where they meet at a point, are on a straight line, or are vertically opposite and find missing angles,</p> <p>Describe positions on the full coordinate grid</p> <p>Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.</p>	<p>Calculate and interpret the mean as an average.</p> <p>Interpret and construct pie charts and line graphs and use these to solve problems.</p>



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	<p>and read scales/number lines. with labelled intervals divided into 2, 4, 5 and 10 equal parts.</p> <p>Use negative numbers in context, and calculate intervals across zero.</p>		<p>Solve problems involving ratio relationships.</p>				
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