



## Year 4 Maths Medium Term Planning

Autumn 1		Autumn 2		
Number and Place Value (3 weeks)	Addition and Subtraction (4 weeks)	Multiplication and Division (5 weeks)	Statistics (1 week)	Consolidation (1 week)
<ul style="list-style-type: none"> <li>count in multiples of 6, 7, 9, 25 and 1000</li> <li>find 1000 more or less than a given number</li> <li>count backwards through zero to include negative numbers</li> <li>recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones)</li> <li>order and compare numbers beyond 1000</li> <li>identify, represent and estimate numbers using different representations</li> <li>round any number to the nearest 10, 100 or 1000</li> <li>solve number and practical problems that involve all of the above and with increasingly large positive numbers</li> <li>read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value.</li> </ul>	<ul style="list-style-type: none"> <li>add and subtract numbers with up to 4 digits using the formal written methods of</li> <li>columnar addition and subtraction where appropriate</li> <li>estimate and use inverse operations to check answers to a calculation</li> <li>solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why</li> </ul>	<ul style="list-style-type: none"> <li>recall multiplication and division facts for multiplication tables up to <math>12 \times 12</math></li> <li>use place value, known and derived facts to multiply and divide mentally, including multiplying by 0 and 1; dividing by 1; multiplying together three numbers</li> <li>recognise and use factor pairs and commutativity in mental calculations</li> <li>multiply two-digit and three-digit numbers by a one-digit number using formal written layout</li> <li>solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as <math>n</math> objects are connected to <math>m</math> objects.</li> </ul>	<ul style="list-style-type: none"> <li>interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.</li> <li>solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.</li> </ul>	



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<p>Vocabulary: Thousands, hundreds, tens, ones, zero, place value, greater than, less than, order, round, rounded to, negative number, partition, digit, roman numeral</p>		<p>Vocabulary: Add, Total, Plus, Sum, More, Altogether, Difference, Subtract, Less, Minus, Take away, Mentally, Orally, Column Addition, Column Subtraction, Exchange, Estimate, Inverse operation, Solve problems, number facts</p>		<p>Vocabulary: Multiply, groups of, lots of, times, divide, share, remainder, factor, multiple, product</p>		<p>Vocabulary: bar chart, pictogram, frequency table, tally chart, discrete data, continuous data, time graph, sum, difference, comparison, interpret</p>	
<b>Spring 1</b>				<b>Spring 2</b>			
<b>Fractions (4 weeks)</b>		<b>Decimals (3 weeks)</b>		<b>Money (2 weeks)</b>		<b>Time (2 weeks)</b>	
<ul style="list-style-type: none"> <li>recognise and show, using diagrams, families of common equivalent fractions</li> <li>count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.</li> <li>solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number</li> </ul>		<ul style="list-style-type: none"> <li>recognise and write decimal equivalents of any number of tenths or hundredths</li> <li>recognise and write decimal equivalents to <math>\frac{1}{4}</math> <math>\frac{1}{2}</math> <math>\frac{3}{4}</math></li> <li>find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the</li> </ul>		<ul style="list-style-type: none"> <li>compare numbers with the same number of decimal places up to two decimal places</li> <li>solve simple measure and money problems involving fractions and decimals to two</li> <li>decimal places.</li> </ul>		<ul style="list-style-type: none"> <li>read, write and convert time between analogue and digital 12- and 24-hour clocks</li> <li>solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.</li> </ul>	
						<b>Mass, Volume and Length (2 weeks)</b>	
						<ul style="list-style-type: none"> <li>Convert between different units of measure [for example, kilometre to metre; hour to minute</li> <li>estimate and measure mass, volume and length</li> <li>convert units of measure from larger to smaller</li> </ul>	



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<ul style="list-style-type: none"> <li>add and subtract fractions with the same denominator</li> </ul>	answer as ones, tenths and hundredths <ul style="list-style-type: none"> <li>round decimals with one decimal place to the nearest whole number</li> <li>compare numbers with the same number of decimal places up to two decimal places</li> </ul>	<ul style="list-style-type: none"> <li>estimate, compare and calculate different measures, including money in pounds and pence</li> </ul>		
Vocabulary: Numerator, denominator, unit fraction, non-unit fraction, equivalent, quantities, whole, halves, thirds, quarters, fifths, sixths, sevenths, eighths, ninths, tenths, elevenths, twelfths	Vocabulary: Tenths, hundredths, decimal, decimal point, decimal tenths, decimal hundredths, decimal equivalents, part whole model, rounding, decimal point, place value,	Vocabulary: Amount, change, combinations, estimate, decimal, penny, pound, pence, round, value, convert	Vocabulary: 12-hour time, 24-hour time, Roman numerals, analogue, digital, hours, minutes, seconds, o'clock, half past, quarter past, quarter to, midday, midnight, noon, a.m., p.m.	Vocabulary: Volume, measure, litres, millilitres, capacity, full, empty, weight, grams, kilograms, heavy, light, measurement, decimal, container, metres, tall, centimetres, metres, squares, distance, millimetres, kilometres, length
<b>Summer 1</b>			<b>Summer 2</b>	
<b>Perimeter (1 week)</b>	<b>Area (2 weeks)</b>	<b>Geometry- Properties of Shape (3 weeks)</b>	<b>Geometry- Position and Direction (2 weeks)</b>	<b>Consolidation</b>
<ul style="list-style-type: none"> <li>measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres</li> </ul>	<ul style="list-style-type: none"> <li>find the area of rectilinear shapes by counting squares</li> </ul>	<ul style="list-style-type: none"> <li>compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes</li> <li>identify acute and obtuse angles and compare and order angles up to two right               <ul style="list-style-type: none"> <li>angles by size</li> <li>identify lines of symmetry in 2-D</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>describe positions on a 2-D grid as coordinates in the first quadrant</li> <li>describe movements between positions as translations of a given unit to the left/right and up/down</li> </ul>	



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		<p>shapes presented in different orientations</p> <p>complete a simple symmetric figure with respect to a specific line of symmetry.</p>	<ul style="list-style-type: none"> <li>plot specified points and draw sides to complete a given polygon.</li> </ul>	
<p>Vocabulary:</p> <p>Centimetres, metres, squares, distance, millimetres, kilometres, length, width, rectilinear, right angle</p>	<p>Vocabulary:</p> <p>Area, perimeter, centimetres, metres, squares, distance, millimetres, kilometres, length, ruler, width, rectilinear, right angle</p>	<p>Vocabulary:</p> <p>Angle, right angle, acute, obtuse, horizontal, vertical, diagonal, parallel, perpendicular, two-dimensional, three-dimensional, polygon, line of symmetry, reflection, mirror line, isosceles, equilateral, scalene, quadrilateral, rhombus, parallelogram, trapezium</p>	<p>Vocabulary:</p> <p>Coordinate, quadrant, x axis, y axis, translation, vertex, vertices</p>	



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