

Year 4

Maths Coverage 2023-2024

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Autumn 1	<p><b>Place value</b></p> <ul style="list-style-type: none"> <li>Representing numbers to 10000 using resources and in different ways (including with money, length)</li> <li>Begin using the positional and multiplicative language to understand the value of the whole number</li> <li>Introduce hundredths (link to percentages)</li> <li>Multiplying and dividing by 100 (including tenths and hundredths)</li> <li>Partitioning numbers into hundreds, tens and ones in different ways</li> <li>Comparing numbers up to 10000 (including with money, length and mass) include decimal numbers as well as whole numbers</li> <li>Ordering numbers up to 10000 (including with money, length, capacity and volume) include decimal numbers as well as whole numbers</li> <li>Rounding numbers to the nearest 10,000 or 1000 within 10000 including tenths and one whole</li> </ul>						<p><b>Statistics</b></p> <p>Interpret and present data including bar charts and time graphs</p> <p>Solve problems presented in bar charts, pictograms, tables and other graphs</p>
Autumn 2	<p><b>Addition and subtraction</b></p> <ul style="list-style-type: none"> <li>Addition - add together (including with money) (aggregation) acting out simple scenarios of the two structures. Numbers to 1000</li> <li>Addition - add more (including with money (decimals with pounds and pence) and length (including metres and centimetres to get in decimals)) (augmentation - 6 apples and given 4 more. How many now?) Numbers to 1000</li> <li>Subtraction - take away Numbers to 1000</li> <li>Subtraction - difference Numbers to 1000</li> <li>Fact families - commutative and inverse</li> <li>Distributive - sequencing e.g. <math>34 + 14 = 34 + 10 + 3</math></li> <li>Associative properties - adding 3 single-digit numbers. Moving numbers around to make them easier to solve.</li> <li>Compensation property - <math>24 + 19 = 24 + 20 + 1</math></li> </ul> <p><b>MENTAL STRATEGIES</b></p> <ul style="list-style-type: none"> <li>Number pairs for all numbers to 1, 10 and 100</li> <li>Counting on and back</li> <li>Doubles and near doubles</li> <li>Adding and subtracting and adjusting</li> <li>Using patterns of similar calculations</li> <li>Bridging through 10</li> <li>Sequencing</li> <li>Making subtraction easier - same difference, different numbers</li> <li>Using known number facts</li> <li>Relationships between operations</li> </ul>						Consolidation

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<p>Spring 1</p>	<p><b><u>Multiplication and division</u></b></p> <ul style="list-style-type: none"> <li>▪ Multiply 3-digit by 1-digit</li> <li>▪ Grid method, expanded and short written methods modelled alongside each other</li> <li>▪ 3-digit divided by 1-digit using grouping</li> <li>▪ Written division calculations including remainders</li> <li>▪ Scaling up and down</li> <li>▪ Correspondence problems</li> </ul> <p><b>MENTAL STRATEGIES</b></p> <ul style="list-style-type: none"> <li>▪ know multiplication and division facts for 1, 5, 10, 2, 4, 8, 3, 6, 12 linking between 2, 4, 8 and 3, 6, 12 times tables</li> <li>▪ dividing by 4 by halving and halving again</li> <li>▪ Multiplying by 4 by doubling and doubling again</li> <li>▪ Multiplying by 5 by multiplying by 10 and halving</li> <li>▪ Dividing by 5 by dividing by 10 and doubling</li> <li>▪ Partitioning</li> <li>▪ Using known facts</li> <li>▪ Associativity - moving a multiplication around to look for easier facts</li> <li>▪ Distributivity - partitioning to make x easier <math>8 \times 7 = (8 \times 5) + (8 \times 2)</math></li> </ul>				
<p>Spring 2</p>	<p><b><u>Fractions and decimals</u></b></p> <ul style="list-style-type: none"> <li>▪ Identify parts and wholes - non-fractional</li> <li>▪ Identify parts and wholes - fractional</li> <li>▪ Addition and subtraction of fractions</li> <li>▪ Commutativity and inverse - family of facts for the fractions</li> <li>▪ Representing fractions in different ways</li> <li>▪ Equivalent fractions</li> <li>▪ Comparing fractions</li> <li>▪ Fractions of shape</li> <li>▪ Improper fractions and mixed numbers</li> </ul>		<p>Consolidation</p>		
<p>Summer 1</p>	<p><b><u>Length and perimeter</u></b></p> <ul style="list-style-type: none"> <li>▪ Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres</li> <li>▪ Convert between different units of measure [for example, kilometre to metre]</li> </ul>	<p><b><u>Area</u></b></p> <p>Find the area of rectilinear shapes by counting squares.</p>	<p><b><u>Shape</u></b></p> <ul style="list-style-type: none"> <li>▪ Compare and classify geometric shapes</li> <li>▪ Acute, obtuse and reflex angles</li> <li>▪ Identify lines of symmetry in 2D shapes presented in different orientations</li> <li>▪ Symmetric figures</li> </ul>	<p><b><u>Position and direction</u></b></p> <ul style="list-style-type: none"> <li>▪ Co-ordinates in the first quadrant</li> <li>Translations</li> </ul>	

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			<ul style="list-style-type: none"><li>▪ Nets of shapes</li><li>▪ Areas of shapes - working towards the formulae</li><li>▪ Perimeter of shapes of rectilinear shapes - working towards the formulae</li><li>▪ Drawing accurately 2D shapes</li><li>▪ Quadrilaterals</li></ul>	Plot specified points on their grid to complete a given polygon	
Summer 2	<p><b>Time</b> Reading and writing time and converting between 12 and 24 hour clock (more of a focus on 24hours) Solving problems using conversion</p>	Consolidation and pre-teaching for Year 5			