

## Maths Units

	Autumn	Spring	Summer
<b>Nursery</b>	<p><b>Number</b></p> <ul style="list-style-type: none"> <li>Recite numbers past 5</li> <li>Use fingers to represent numbers</li> <li>Say one number for each item in order</li> <li>Subitise up to 3</li> <li>Know that the last number reached when counting a small set of objects tells you how many there are in total</li> <li>Link numerals and amounts</li> <li>Experiment with symbols, marks and numerals</li> <li>Compare quantities</li> <li>Solve real world mathematical problems with numbers up to 5 and quantities</li> </ul> <p><b>Shape, Space and Measure</b></p> <ul style="list-style-type: none"> <li>Describe a familiar route</li> </ul>	<p><b>Number</b></p> <ul style="list-style-type: none"> <li>Subitise up to 3</li> <li>Know that the last number reached when counting a small set of objects tells you how many there are in total ('cardinal principle').</li> <li>Link numerals and amounts</li> <li>Experiment with symbols and marks and numerals</li> </ul> <p><b>Shape, space and Measure</b></p> <ul style="list-style-type: none"> <li>Understand position through words (prepositions)</li> <li>Discuss routes and locations</li> <li>Explore patterns</li> <li>Talk about and explore 2D and 3D shapes</li> <li>Select shapes appropriately</li> <li>Combine shapes to make new ones</li> </ul>	<p><b>Number</b></p> <p>Link numerals and amounts Experiment with symbols, marks and numerals -Solve real world mathematical problems with numbers up to 5.</p> <p><b>Shape, space and Measure</b></p> <p>Compare quantities Explore 2D and 3D shapes Understand position through words alone Extend and create patterns</p>
<b>Reception</b>	<p><b>Mastering Number</b></p> <ul style="list-style-type: none"> <li>Subitise up to 5</li> <li>Understand the 'one more than/one less than' relationship between consecutive numbers</li> <li>Compare quantities up to 10 in different contexts</li> <li>Count objects, actions and sounds</li> </ul> <p><b>Shape, Space and Measure</b></p> <ul style="list-style-type: none"> <li>Sort objects according to their properties</li> <li>Name and describe the key features of 2D and 3D shapes</li> <li>Develop spatial orientation skills.</li> </ul>	<p><b>Mastering Number</b></p> <ul style="list-style-type: none"> <li>Continue to develop subitising skills within and beyond 5</li> <li>Connect quantities to numerals</li> <li>Begin to identify when two sets are equal or unequal and connect two equal groups to doubles</li> <li>Begin to identify missing parts for numbers within 5</li> <li>Explore the structure of the numbers 6 and 7</li> <li>Sort odd and even numbers according to their 'shape'</li> <li>Continue to develop understanding of the counting sequence and link cardinality and ordinality</li> <li>Order numbers and play track games</li> <li>Join in with verbal counts beyond 20</li> </ul> <p><b>Shape, Space and Measure</b></p> <ul style="list-style-type: none"> <li>Compare and describe length/height/ weight</li> <li>Copy and create repeating patterns</li> <li>Name and describe the key features of 2D and 3D shapes</li> </ul>	<p><b>Mastering Number</b></p> <ul style="list-style-type: none"> <li>Consolidate counting skills, counting larger sets as well as counting actions and sounds</li> <li>Explore a range of representations of numbers</li> <li>Compare quantities and numbers, including sets of objects which have different attributes</li> <li>Continue to develop a sense of magnitude</li> <li>Begin to generalise about 'one more than' and 'one less than' numbers within 10</li> <li>Continue to identify when sets can be subitised and when counting is necessary</li> <li>Develop conceptual subitising skills</li> </ul> <p><b>Shape, Space and Measure.</b></p> <ul style="list-style-type: none"> <li>Compare and describe capacity</li> <li>Sequence time</li> <li>Describe objects and groups of objects part and whole</li> <li>Rotate and manipulate shapes</li> <li>Compose and decompose shapes</li> <li>Name and describe the key features of 2D and 3D shapes</li> </ul>

Year 1	<p><b>Geometry</b></p> <ul style="list-style-type: none"> <li>Positional language including ordinal numbers</li> </ul> <p><b>Numbers to 10</b></p> <ul style="list-style-type: none"> <li>Finding patterns including subitising</li> <li>Counting, comparing, estimating, ordering and regrouping</li> <li>Part whole addition and subtraction problem solving</li> <li>Comparison, equality and balance</li> </ul> <p><b>Numbers to 20</b></p> <ul style="list-style-type: none"> <li>Making 10 and more</li> <li>Estimating, ordering, 1 more and 1 less</li> <li>Doubling and halving</li> <li>Odd and Even numbers</li> </ul> <p><b>Geometry</b></p> <ul style="list-style-type: none"> <li>Names and properties of 2-D and 3-D shapes</li> </ul>	<p><b>Measures</b></p> <ul style="list-style-type: none"> <li>Comparing length, height, mass and speed</li> <li>Sequencing events: days and months</li> </ul> <p><b>Numbers to 20</b></p> <ul style="list-style-type: none"> <li>Adding and subtracting using 'think 10'</li> <li>Equality and balance</li> <li>Part or whole unknown</li> <li>Language and problem solving</li> <li>Comparing including statistics</li> </ul> <p><b>Measures</b></p> <ul style="list-style-type: none"> <li>Coins and combinations to 20p</li> <li>Ordering and comparing measures</li> <li>Non-standard measures and introducing simple standard measures</li> </ul> <p><b>Multiplication</b></p> <ul style="list-style-type: none"> <li>Counting in 2s, 5s and 10s</li> </ul>	<p><b>Multiplication and division</b></p> <ul style="list-style-type: none"> <li>Equal or unequal groups and remainders</li> <li>Repeated addition and arrays</li> <li>Problem solving</li> <li>Scaling and counting in 2s</li> <li>Sharing and grouping problems</li> </ul> <p><b>Time</b></p> <ul style="list-style-type: none"> <li>Telling the time: O'clock and half past</li> </ul> <p><b>Fractions</b></p> <ul style="list-style-type: none"> <li>Sharing into equal groups</li> <li>Equal or unequal parts of shapes</li> <li>Fractions of continuous quantities including capacity</li> </ul> <p><b>Numbers to 20 and 100</b></p> <ul style="list-style-type: none"> <li>Review of place value and digits, making tens and ones</li> </ul> <p><b>Place Value</b></p> <ul style="list-style-type: none"> <li>Estimation, ordering and comparing</li> </ul>
Year 2	<p><b>Securing fluency to twenty</b></p> <ul style="list-style-type: none"> <li>Regrouping, adding and subtracting</li> </ul> <p><b>Place value</b></p> <ul style="list-style-type: none"> <li>Making ten and some more</li> <li>Regrouping 2-digit numbers</li> <li>Counting on and back in ones and tens</li> <li>Representing, ordering, estimating and comparing numbers to 100</li> </ul> <p><b>Addition and Subtraction</b></p> <ul style="list-style-type: none"> <li>Mental addition and subtraction with numbers to 20</li> <li>Finding complements to 10 and 100</li> <li>Finding part or whole unknown</li> </ul> <p><b>Money</b></p> <ul style="list-style-type: none"> <li>Making combinations and finding change</li> </ul> <p><b>Measures</b></p> <ul style="list-style-type: none"> <li>Compare, estimate and measure using different scales</li> </ul>	<p><b>Statistics</b></p> <ul style="list-style-type: none"> <li>Totalling and comparing amounts in block graphs</li> </ul> <p><b>Addition and subtraction</b></p> <ul style="list-style-type: none"> <li>Written addition and subtraction method</li> <li>Commutativity in addition but not subtraction</li> <li>Problem solving in a range of contexts</li> </ul> <p><b>Time</b></p> <ul style="list-style-type: none"> <li>Telling the time: O'clock, half past, quarter past and quarter to</li> <li>Estimate, order and compare time</li> </ul> <p><b>Number Facts</b></p> <ul style="list-style-type: none"> <li>Double and halve 2-digit numbers</li> </ul> <p><b>Multiplication</b></p> <ul style="list-style-type: none"> <li>2s, 5s and 10s patterns and strategies</li> <li>Multiples and repeated addition</li> <li>Number of groups, group size and product</li> <li>Problem solving</li> </ul> <p><b>Division</b></p> <ul style="list-style-type: none"> <li>Sharing and grouping</li> <li>Problem solving including remainders</li> </ul>	<p><b>Fractions</b></p> <ul style="list-style-type: none"> <li>Finding halves, quarters and thirds of amounts and shapes</li> <li>Finding three quarters</li> <li>Equivalence</li> </ul> <p><b>Time</b></p> <ul style="list-style-type: none"> <li>Telling the time to the nearest 5 minutes</li> </ul> <p><b>Problem solving</b></p> <ul style="list-style-type: none"> <li>All four operations</li> </ul> <p><b>Multiplication and Division</b></p> <ul style="list-style-type: none"> <li>Equality and balance</li> </ul> <p><b>Geometry</b></p> <ul style="list-style-type: none"> <li>Properties of 2-D and 3-D shapes, classifying and sorting</li> <li>Symmetry</li> </ul> <p><b>Calculation</b></p> <ul style="list-style-type: none"> <li>Review strategies</li> </ul> <p><b>Geometry</b></p> <ul style="list-style-type: none"> <li>Sequencing, rotation and right angles</li> </ul> <p><b>Place Value</b></p> <ul style="list-style-type: none"> <li>Written calculation and number review</li> </ul>

<p><b>Year 3</b></p>	<p><b>Place value</b></p> <ul style="list-style-type: none"> <li>• Regrouping, counting on and back in tens and hundreds</li> <li>• Estimation, magnitude and rounding</li> </ul> <p><b>Addition and subtraction</b></p> <ul style="list-style-type: none"> <li>• Mental fluency- addition and subtraction</li> <li>• Fact families and the inverse</li> <li>• Written addition and subtraction methods</li> <li>• Problem solving</li> </ul> <p><b>Statistics</b></p> <ul style="list-style-type: none"> <li>• Interpreting bar charts and tables</li> </ul> <p><b>Geometry</b></p> <ul style="list-style-type: none"> <li>• Angles, right angles and estimations</li> <li>• Perpendicular, parallel lines, vertical and horizontal lines</li> <li>• 2-D shapes properties and drawing</li> <li>• Perimeter using written and mental methods</li> </ul>	<p><b>Multiplication and division</b></p> <ul style="list-style-type: none"> <li>• 3, 4 and 8 times tables</li> <li>• Dividing 1, 2, 3, 5, 4 and 8 times tables</li> <li>• Associative and distributive laws</li> <li>• Worded problems</li> </ul> <p><b>Statistics</b></p> <ul style="list-style-type: none"> <li>• Pictograms and scaled bar charts</li> </ul> <p><b>Fractions</b></p> <ul style="list-style-type: none"> <li>• Ordering and comparing fractions</li> <li>• Adding and subtracting fractions with the same denominator</li> <li>• Solving problems with unit and non-unit fractions</li> </ul> <p><b>Multiplication</b></p> <ul style="list-style-type: none"> <li>• Multiplying multiples of ten</li> <li>• Formal written multiplication</li> </ul>	<p><b>Multiplication and division</b></p> <ul style="list-style-type: none"> <li>• Sharing and grouping</li> <li>• Dividing 2-digit and 3-digit numbers</li> <li>• Multiplication, division and fractions including scaling and correspondence</li> <li>• Long division</li> </ul> <p><b>Time</b></p> <ul style="list-style-type: none"> <li>• Measures of time, telling the time and duration</li> </ul> <p><b>Calculation</b></p> <ul style="list-style-type: none"> <li>• Securing the four operations including problem solving</li> </ul> <p><b>Place Value</b></p> <ul style="list-style-type: none"> <li>• Decimals, ten times greater and smaller</li> <li>• Regrouping</li> <li>• Estimation, comparison and rounding</li> </ul> <p><b>Measure</b></p> <ul style="list-style-type: none"> <li>• Measure problem solving</li> </ul> <p><b>Shape</b></p> <ul style="list-style-type: none"> <li>• Building and identify properties</li> </ul>
<p><b>Year 4</b></p>	<p><b>Place value</b></p> <ul style="list-style-type: none"> <li>• Order and compare numbers beyond 1000</li> <li>• Rounding, estimation and magnitude</li> </ul> <p><b>Addition and subtraction</b></p> <ul style="list-style-type: none"> <li>• Mental fluency with addition and subtraction</li> <li>• Formal written addition and subtraction</li> </ul> <p><b>Multiplication</b></p> <ul style="list-style-type: none"> <li>• Counting in multiples of 6, 7, 9, 25 and 1000</li> <li>• Multiplication and division facts</li> <li>• Factor pairs, integer scaling and correspondence problems</li> <li>• Multiply and divide by 10 and 100</li> <li>• Conversion of units</li> </ul> <p><b>Data</b></p> <ul style="list-style-type: none"> <li>• Discrete and continuous data</li> </ul> <p><b>Measures</b></p> <ul style="list-style-type: none"> <li>• Perimeter</li> </ul>	<p><b>Geometry</b></p> <ul style="list-style-type: none"> <li>• Properties of shape</li> <li>• Symmetry</li> </ul> <p><b>Decimal numbers and money</b></p> <ul style="list-style-type: none"> <li>• Calculating with decimals</li> <li>• Money</li> <li>• Problem solving with numbers to 2-decimal places</li> </ul> <p><b>Fractions</b></p> <ul style="list-style-type: none"> <li>• Add and subtract fractions with the same denominator</li> <li>• Finding fractions of quantities</li> <li>• Fractions in the context of measure</li> <li>• Equivalent fractions, ordering and comparing</li> </ul> <p><b>Multiplication and division</b></p> <ul style="list-style-type: none"> <li>• Multiply numbers using the formal written method</li> </ul>	<p><b>Time</b></p> <ul style="list-style-type: none"> <li>• Read, Write Calculate and Convert Time on Analogue and Digital 12- and 24-Hour Clocks</li> </ul> <p><b>Statistics</b></p> <ul style="list-style-type: none"> <li>• Interpret and Present Continuous and Discrete Data, Solve Problems incorporating Measures</li> </ul> <p><b>Numerals</b></p> <ul style="list-style-type: none"> <li>• Roman Numerals to 100 and Zero</li> <li>• Negative Numbers – Counting through Zero and Calculating in Context</li> </ul> <p><b>Geometry</b></p> <ul style="list-style-type: none"> <li>• Angles</li> <li>• Properties of triangles</li> <li>• Coordinates in the First Quadrant and Translations</li> <li>• Position and Direction, incorporating Angles and Plotting Points of a Shape</li> </ul> <p><b>Multiplication and division review</b></p> <p><b>Measures</b></p> <ul style="list-style-type: none"> <li>• Area</li> </ul> <p><b>Fractions review</b></p> <p><b>Application and Problem Solving</b></p> <ul style="list-style-type: none"> <li>• Developing Operation Sense</li> </ul>