

**Maths -Whole School Long term planning**

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<p><b>Nursery</b></p> <p><b>Area of Learning</b> <b>Maths (Specific Area)</b></p> <p><b>ELG Strand</b> <b>-Number</b> <b>- Numerical Patterns</b></p>	<p>Finger rhymes. React to changes of amount up to three items e.g. two little dicky birds To show an interest in numbers in the environment To show an interest in shapes in the environment and use these during play Compare amounts, saying 'lots', 'more' or 'same'. Counting-like behaviour, such as making sounds, pointing or saying some numbers in sequence. Count in everyday contexts, sometimes skipping numbers - '1-2-3-5'. Build with a range of resources. Complete inset puzzles. Compare sizes, weights etc. using gesture and language - 'bigger/little/smaller', 'high/low', 'tall', 'heavy'. Notice patterns and arrange things in patterns.</p>		<p>Talk about and explore 2D and 3D shapes (for example, circles, rectangles, triangles and cuboids) using informal and mathematical language: 'sides', 'corners'; 'straight', 'flat', 'round' Experiment with their own symbols and marks as well as numerals. Solve real world mathematical problems with numbers up to 5. Compare quantities using language: 'more than', 'fewer than'. Fast recognition of up to 3 objects, without having to count them individually ('subitising'). Recite numbers past 5. Say one number for each item in order: 1,2,3,4,5. Know that the last number reached when counting a small set of objects tells you how many there are in total ('cardinal principle'). Show 'finger numbers' up to 5. Link numerals and amounts: for example, showing the right number of objects to match the numeral, up to 5.</p>		<p>Understand position through words alone – for example, "The bag is under the table," – with no pointing. Describe a familiar route. Discuss routes and locations, using words like 'in front of' and 'behind'. Make comparisons between objects relating to size, length, weight and capacity. Select shapes appropriately: flat surfaces for building Combine shapes to make new ones Talk about and identifies the patterns around them, Use informal language like 'pointy', 'spotty', 'blobs' etc. Extend and create ABAB patterns Notice and correct an error in a repeating pattern. Begin to describe a sequence of events, real or fictional, using words such as 'first', 'then...</p>	
<p><b>Reception</b></p> <p><b>Area of Learning</b> <b>Maths (Specific Area)</b></p> <p><b>ELG Strand</b> <b>-Number</b> <b>- Numerical Patterns</b></p>	<p>Match and sort Compare amounts Compare size, Mass and capacity Exploring pattern Representing/comparing/composition of 1,2 &amp; 3 Composition of 4 &amp; 5, 6, 7, 8 ,9 &amp; 10 Circles (numeral 1), triangles (numeral 3) and 4 sided shapes Representing Numbers to 5 1 more/less Comparing numbers to 5: even and odd</p>		<p>Introducing zero Making pairs Combining 2 groups Comparing numbers to 10: even and odd Positional language Bonds to 10 Compare Mass (2) Compare Capacity (2) Length &amp; Height Time 3D-shape Pattern (2)</p>		<p>Building numbers beyond 10 Counting patterns beyond 10 Spatial reasoning (1) – match, rotate and manipulate Adding more, Taking away Spatial reasoning (2) –compose and decompose Doubling, Even and odd Sharing and grouping Spatial reasoning (3) – visualise and build Deepening understanding, patterns and relationships Spatial reasoning (4) – mapping</p>	

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<b>Year 1</b>	<ul style="list-style-type: none"> <li>Place Value</li> <li>Addition &amp; subtraction</li> </ul>	<ul style="list-style-type: none"> <li>Addition &amp; subtraction</li> <li>Shape</li> </ul>	<ul style="list-style-type: none"> <li>Place value</li> <li>Addition &amp; subtraction</li> </ul>	<ul style="list-style-type: none"> <li>Place value</li> <li>Length &amp; height</li> <li>Mass &amp; volume</li> </ul>	<ul style="list-style-type: none"> <li>Multiplication &amp; division</li> <li>Fractions</li> <li>Position &amp; direction</li> </ul>	<ul style="list-style-type: none"> <li>Place value</li> <li>Money</li> <li>Time</li> </ul>
<b>Year 2</b>	<ul style="list-style-type: none"> <li>Place value</li> <li>Addition and subtraction</li> </ul>	<ul style="list-style-type: none"> <li>Addition and subtraction</li> <li>Shape</li> </ul>	<ul style="list-style-type: none"> <li>Money</li> <li>Multiplication and division</li> </ul>	<ul style="list-style-type: none"> <li>Multiplication and division</li> <li>Length and Height</li> <li>Mass, capacity and temperature</li> </ul>	<ul style="list-style-type: none"> <li>Statistics</li> <li>Fractions</li> <li>Position and direction</li> </ul>	<ul style="list-style-type: none"> <li>Problem solving</li> <li>Time</li> </ul>
<b>Year 3</b>	<ul style="list-style-type: none"> <li>Place value</li> <li>Addition &amp; Subtraction</li> </ul>	<ul style="list-style-type: none"> <li>Multiplication &amp; Division</li> </ul>	<ul style="list-style-type: none"> <li>Multiplication &amp; Division</li> <li>Money</li> </ul>	<ul style="list-style-type: none"> <li>Statistics</li> <li>Length &amp; Perimeter</li> <li>Fractions</li> </ul>	<ul style="list-style-type: none"> <li>Fractions</li> <li>Time</li> </ul>	<ul style="list-style-type: none"> <li>Properties of shape</li> <li>Mass &amp; Capacity</li> </ul>
<b>Year 4</b>	<ul style="list-style-type: none"> <li>Place Value</li> <li>Addition &amp; subtraction</li> </ul>	<ul style="list-style-type: none"> <li>Multiplication &amp; Division</li> <li>Length &amp; Perimeter</li> </ul>	<ul style="list-style-type: none"> <li>Multiplication &amp; Division</li> <li>Area</li> </ul>	<ul style="list-style-type: none"> <li>Fractions</li> <li>Decimals</li> </ul>	<ul style="list-style-type: none"> <li>Decimals</li> <li>Money</li> <li>Time</li> </ul>	<ul style="list-style-type: none"> <li>Statistics</li> <li>Properties of shape</li> <li>Position &amp; Direction</li> </ul>
<b>Year 5</b>	<ul style="list-style-type: none"> <li>Place Value</li> <li>Addition and Subtraction</li> </ul>	<ul style="list-style-type: none"> <li>Multiplication and Division</li> <li>Fractions</li> </ul>	<ul style="list-style-type: none"> <li>Multiplication and Division</li> <li>Fractions</li> </ul>	<ul style="list-style-type: none"> <li>Decimals and Percentages</li> <li>Perimeter</li> <li>Statistics</li> </ul>	<ul style="list-style-type: none"> <li>Shape</li> <li>Position and Direction</li> <li>Decimals</li> </ul>	<ul style="list-style-type: none"> <li>Negative numbers</li> <li>Converting Units</li> <li>Volume</li> </ul>
<b>Year 6</b>	<ul style="list-style-type: none"> <li>Place value</li> <li>Addition, subtraction, multiplication and division</li> </ul>	<ul style="list-style-type: none"> <li>Fractions</li> <li>Position and direction</li> </ul>	<ul style="list-style-type: none"> <li>Decimals</li> <li>Percentages</li> <li>Algebra</li> </ul>	<ul style="list-style-type: none"> <li>Converting units</li> <li>Perimeter, area &amp; volume</li> <li>Ratio</li> </ul>	<ul style="list-style-type: none"> <li>Statistics</li> <li>Properties of shape</li> </ul>	<ul style="list-style-type: none"> <li>Maths Project</li> </ul>