

**Eveline Day School  
Maths  
Upper Key Stage 2**

	Year 5	Year 6
Autumn 1	<ul style="list-style-type: none"> <li>• Development of calculation strategies</li> <li>• Word problems</li> <li>• Multiplication and division of decimals</li> <li>• Time and length; 24 hr clock, converting mm to cm</li> <li>• Perimeters</li> <li>• Money</li> </ul>	<ul style="list-style-type: none"> <li>• Consolidate topics in preparation for forthcoming 11+ exams</li> <li>• Place Value in relation to whole numbers and decimals</li> <li>• Four operations</li> <li>• Algebra</li> <li>• Problem solving using written methods and mental computation</li> </ul>
Autumn 2	<ul style="list-style-type: none"> <li>• Addition and subtraction</li> <li>• Multiplication and division of fractions</li> <li>• Multiples and factors</li> <li>• Angles</li> <li>• Whole numbers, decimal and fraction comparisons</li> <li>• Simplification of fractions</li> </ul>	<ul style="list-style-type: none"> <li>• Ratio &amp; proportion</li> <li>• Properties, area and perimeter of 2D shapes.</li> <li>• 3D shapes - properties, nets and volume.</li> <li>• Positive and negative whole numbers.</li> <li>• Comparing, ordering, adding and subtracting fractions</li> <li>• Division; fractions and percentages</li> </ul>
Spring 1	<ul style="list-style-type: none"> <li>• Place value – 6 digits</li> <li>• Rounding up</li> <li>• Addition and subtraction</li> <li>• Mental strategies</li> <li>• Multiplication and division</li> <li>• Identifying patterns and rules – prime numbers, factors, squares and square roots</li> <li>• 2D shape and measure</li> </ul>	<ul style="list-style-type: none"> <li>• Multiplication of fractions and decimals.</li> <li>• Decimals, proper fractions and their equivalences.</li> <li>• Problem solving &amp; reasoning using the four operations</li> <li>• Algebra</li> <li>• 2D shapes and their interior angles</li> <li>• Circles and their terminology</li> <li>• Number patterns involving factors and multiples.</li> <li>• Long division.</li> </ul>
Spring 2	<ul style="list-style-type: none"> <li>• Multiplication and division of fractions</li> <li>• 2D shapes – angles and measures</li> <li>• Fractions – revision</li> <li>• 4 digit addition and subtraction using column addition</li> <li>• Preparation for 11+ exams – weekly papers</li> </ul>	<ul style="list-style-type: none"> <li>• Addition/subtraction involving money and decimals.</li> <li>• Data representation and manipulation, including line graphs, pie charts and the use and calculation of averages.</li> <li>• Coordinate geometry; position on a 4-quadrant coordinate grid, with polygons being plotted, translated and reflected; Angle theorems.</li> <li>• Multiplication and division -use of written algorithms in multiplying and dividing large numbers</li> <li>• Algebra and ratio - use of generalisations and simple formula, including finding the nth term in a sequence.</li> </ul>
Summer 1	<ul style="list-style-type: none"> <li>• Addition and subtractions of money</li> <li>• Associated word problems</li> <li>• Multiplication of fractions</li> <li>• Long and short multiplication of whole numbers</li> <li>• Place value of decimals</li> <li>• Co-ordinate geometry with 2D and 3D shapes</li> <li>• 11+ papers</li> </ul>	<ul style="list-style-type: none"> <li>• Revision: place value in large numbers and decimal fractions</li> <li>• Revision: mental and written strategies in addition and subtraction, finding percentages; order of operations; and finding unknowns in equations.</li> <li>• Revision: written algorithms for multiplication and division and mental strategies including the use of factors; finding fractions of amounts; and calculating mean average.</li> </ul>
Summer 2	<ul style="list-style-type: none"> <li>• Multiplication and division of fractions</li> <li>• Area, perimeter and volume</li> <li>• Fractions, decimals and percentage (Introduce earlier due to 11+ exams – autumn 2 as well)</li> <li>• 11+ papers</li> </ul>	<ul style="list-style-type: none"> <li>• Consolidate: Equivalence in fractions; using this to add, subtract, multiply and divide fractions</li> <li>• Solving ratio problems.</li> <li>• Revise: properties of 2D shapes; angle types and theorems. Perimeter, area and volume.</li> <li>• 24-hour clock time intervals; tables, graphs and charts.</li> <li>• Exploration of interesting mathematical concepts and processes; binary numbers, Napier’s bones; playing with numbers, discovering patterns, solving mathematical puzzles.</li> </ul>
Non-VR/ On-line	<ul style="list-style-type: none"> <li>• Non-VR and Spatial practise</li> <li>• BOFA on-line non-VR</li> <li>• BOFA on-line mental maths</li> </ul>	<ul style="list-style-type: none"> <li>• Non-VR and Spatial practise</li> <li>• BOFA on-line non-VR</li> <li>• BOFA on-line mental maths</li> </ul>