



Algebra: Whole-School Curriculum Progression Map



EQUATIONS							
Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		<p><i>solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = \square - 9$ (copied from Addition and Subtraction)</i></p>	<p><i>recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems. (copied from Addition and Subtraction)</i></p>	<p><i>solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. (copied from Addition and Subtraction)</i></p>		<p><i>use the properties of rectangles to deduce related facts and find missing lengths and angles (copied from Geometry: Properties of Shapes)</i></p>	<p><i>express missing number problems algebraically</i></p>
				<p><i>solve problems, including missing number problems, involving multiplication and division, including integer scaling (copied from Multiplication and Division)</i></p>			
			<p><i>recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 (copied from Addition and Subtraction)</i></p>				<p><i>find pairs of numbers that satisfy number sentences involving two unknowns</i></p>
		<p><i>represent and use number bonds and related subtraction facts within 20 (copied from Addition and Subtraction)</i></p>					<p><i>enumerate all possibilities of combinations of two variables</i></p>



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FORMULAE							
Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
					<p><i>Perimeter can be expressed algebraically as $2(a + b)$ where a and b are the dimensions in the same unit.</i> (Copied from NSG measurement)</p>		<p>use simple formulae</p> <p>recognise when it is possible to use formulae for area and volume of shapes (copied from Measurement)</p>
SEQUENCES							
		<p><i>sequence events in chronological order using language such as: before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening</i> (copied from Measurement)</p>	<p><i>compare and sequence intervals of time</i> (copied from Measurement)</p> <p><i>order and arrange combinations of mathematical objects in patterns</i> (copied from Geometry: position and direction)</p>				<p>generate and describe linear number sequences</p>
GREATER DEPTH							
<p>Learning can be transferred and applied in different contexts.</p> <p>Pupils can explain their understanding to others.</p> <p>Pupils can make connections with other areas of learning and new areas.</p>							