



# Power Maths Knowledge & Skills Progression

## Algebra



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



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FORMULAE					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
			<i>Perimeter can be expressed algebraically as <math>2(a + b)</math> where <math>a</math> and <math>b</math> are the dimensions in the same unit. (Copied from NSG measurement)</i>		use simple formulae  <i>recognise when it is possible to use <b>formulae</b> for area and volume of shapes (copied from Measurement)</i>
SEQUENCES					
<i>sequence events in chronological order using language such as: before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening (copied from Measurement)</i>	<i>compare and sequence intervals of time (copied from Measurement)</i>  <i>order and arrange combinations of mathematical objects in patterns (copied from Geometry: position and direction)</i>				generate and describe linear number sequences