

Mathematics Skill Progression

Algebra						
Equations						
Reception	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 missing number problems such as $7 = \square - 9$ (copied from Addition and Subtraction)</p> <p>represent and use number bonds and related subtraction facts within 20 (copied from Addition and Subtraction)</p>	<p>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)</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>solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. (copied from Addition and Subtraction)</p> <p>solve problems, including missing number problems, involving multiplication and division, including integer scaling (copied from Multiplication and Division)</p>		<p>use the properties of rectangles to deduce related facts and find missing lengths and angles (copied from Geometry: Properties of Shapes)</p>	<p>express missing number problems algebraically</p> <p>find pairs of numbers that satisfy number sentences involving two unknowns</p>
Formulae						
				<p>Perimeter can be expressed algebraically as $2(a + b)$ where a and b are the dimensions in the same unit. (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>sequence events in chronological order using language such as: before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening (copied from Measurement)</p>	<p>compare and sequence intervals of time (copied from Measurement)</p> <p>order and arrange combinations of mathematical objects in patterns (copied from Geometry: position and direction)</p>				<p>generate and describe linear number sequences</p>
Algebra Vocabulary						
	<p>Solve</p> <p>One-step problem</p> <p>Missing number</p> <p>Check</p> <p>Calculate</p> <p>problem</p> <p>Sequence</p> <p>Chronological</p>	<p>As previous year plus:</p> <p>Inverse</p> <p>Relationship</p> <p>Compare</p> <p>Order</p> <p>Arrange</p> <p>Pattern</p>		<p>As previous years plus:</p> <p>Perimeter</p> <p>Algebra</p> <p>Algebraically</p>	<p>As previous years plus:</p> <p>Properties</p> <p>Rectangles</p> <p>Deduce</p> <p>Related facts</p> <p>Missing lengths</p> <p>Missing angles</p>	<p>As previous years plus:</p> <p>Missing number</p> <p>Problem</p> <p>Pairs</p> <p>Number sentence</p> <p>Variables</p> <p>Combination</p> <p>Possibility</p> <p>Enumerate</p> <p>Equation</p> <p>Formulae</p> <p>Generate</p> <p>Linear number sequence</p>