

Meath Green Junior School- Whole School Progression- Algebra

Our Intent:

Maths at Meath Green Junior School is a subject that sparks curiosity, provides challenge and results in enjoyment through the children's processes and successes. We aim for the stigma of maths to be eradicated and replaced with children who are brave and resilient within their approaches to mathematical concepts, representations and problems. Our approaches ensure that children are actively involved in their learning and are passionate about their knowledge and achievements.

Developing knowledge

Year 3

Year 4

Year 5

Year 6

Algebra

Equations

<p>solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = * - 9$</p>	<p>solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. (Addition and Subtraction NC Objective)</p> <p>solve problems, including missing number problems, involving multiplication and division, including integer scaling (Multiplication & Division NC Objective)</p>		<p>use the properties of rectangles to deduce related facts and find missing lengths and angles (Geometry: Properties of Shapes NC Objective)</p>	<p>express missing number problems algebraically</p>
<p>recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 (Addition and Subtraction NC Objective)</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</p>				<p>enumerate all possibilities of combinations of two variables</p>

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(Addition and subtraction NC Objective)				
<u>Formulae</u>				
		perimeter can be expressed algebraically as $2(a + b)$ where a and b are the dimensions in the same unit. (Link to Measurement NC Objective)		Use simple formulae recognise when it is possible to use formulae for area and volume of shapes (Measurement NC Objective)
<u>Sequencing</u>				
				generate and describe linear number sequences
sequence events in chronological order using language				
compare and sequence intervals of time (Measurement NC Objective)				
generate and describe linear number sequences order and arrange combinations of mathematical objects in patterns (Geometry: position and direction NC Objective)				