

Misterton Primary and Nursery School – Maths: Algebra Progression Document

Key Areas	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Equations	Know how to represent and use number bonds and related subtraction facts within 10 (copied from Addition and Subtraction)	Know how to 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) Know how to represent and use number bonds and related subtraction facts within 20 (copied from Addition and Subtraction)	Know how to 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) Know how to recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 (copied from Addition and Subtraction)	Know how to solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. (copied from Addition and Subtraction)	Know how to solve problems, including missing number problems, involving multiplication and division, including integer scaling (copied from Multiplication and Division)	Know how to use the properties of rectangles to deduce related facts and find missing lengths and angles (copied from Geometry: Properties of Shapes)	Know how to express missing number problems algebraically Know how to find pairs of numbers that satisfy number sentences involving two unknowns Know how to enumerate all possibilities of combinations of two variables
Formulae					Know that perimeter can be expressed algebraically as $2(a + b)$ where a and b are the dimensions in the same unit. (Copied from NSG measurement)	Know that area can be expressed algebraically as $2(a + b)$ where a and b are the dimensions in the same unit. (Copied from NSG measurement)	Know how to use simple formulae Know how to recognise when it is possible to use formulae for area and volume of shapes (copied from Measurement)

Sequences		<i>Know how to 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)	<i>Know how to compare and sequence intervals of time</i> (copied from Measurement) <i>Know how to order and arrange combinations of mathematical objects in patterns</i> (copied from Geometry: position and direction)				Know how to generate and describe linear number sequences
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