

Maths Knowledge and Skills Progression

Algebra

Key of Text Colours

National Curriculum Objectives

NC Objective appears elsewhere within the same topic progression document

NC Objective also appears in another topic progression document

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

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FORMULAE					
			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)
SEQUENCES					
sequence events in chronological order using language such as: before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening (Measurement NC Objective)	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)				