



Maths Skills Progression: Algebra

Please note that this progression framework has been taken from NCETM to support understanding of progression of the different maths strands. Skills may appear more than once as some skills support more than one area of progression.



	Sequence		Equations	Formulae
EYFS	Begin to describe a sequence of events, real or fictional, using words such as 'first', 'then...'	Extend and create ABAB patterns – stick, leaf, stick, leaf Notice and correct an error in a repeating pattern Continue, copy and create repeating patterns	Experiment with their own symbols and marks as well as numerals Extend and create ABAB patterns – stick, leaf, stick, leaf	
Year 1	Sequence events in chronological order using language such as: before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening		Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = * - 9$	
Year 2	Compare and sequence intervals of time	Order and arrange combinations of mathematical objects in patterns	Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems.	
Year 3			Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. Solve problems, including missing number problems, involving multiplication and division, including integer scaling	
Year 4			Solve increasingly complex problems involving missing numbers, number facts, addition, subtraction, multiplication and division.	



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			Understand that perimeter can be represented in a formula as $2(l + w)$ where l and w are the dimensions of a rectangular shape.	
Year 5			Use the properties of rectangles to deduce related facts and find missing lengths and angles	
Year 6	Generate and describe linear number sequences		Express missing number problems algebraically Find pairs of numbers that satisfy number sentences involving two unknowns enumerate all possibilities of combinations of two variables	Use simple formulae Recognise when it is possible to use formulae for area and volume of shapes