

Topic 6: Algebra	Key ideas
<ul style="list-style-type: none"> □ Represent an unknown number using a letter Mathswatch A4 □ Write and understand simple algebraic expressions Mathswatch A2 □ Substitute numerical values into formulae and expressions Mathswatch A10 □ Collect like terms and simplify expressions Mathswatch A7a and A7b □ Multiply out single brackets Mathswatch A8 □ Solve linear equations in one unknown Mathswatch A12 and A17 	<p>I can use letters to represent numbers.</p> <p>I understand the basic language of algebra.</p> <p>I understand addition and subtraction are opposite (inverse) operations</p> <p>I understand multiplication and division are opposite (inverse) operations</p> <p>I can form simple algebraic expressions.</p> <p>I can simplify expressions by collecting like terms.</p> <p>I can substitute numbers into expressions and formulae.</p> <p>I can expand single brackets.</p> <p>I can solve linear equations with the variable on one side.</p> <p>I can solve linear equations involving brackets.</p>

Key vocabulary

Expression	A mathematical sentence with at least two terms and an operation.
Expand	Expand means to remove the brackets, by multiplying everything inside the brackets by what is on the outside and not separated by an operation.
Substitute	To replace variables with a given value.
Simplify	Write an expression in its most compact or efficient way without changing the value of the expression. Also known as collect the like terms.
Equation	A mathematical statement that two things are equal to each other. It consists of two expressions, one on each side of the equals sign.
Solve	Find the value of the unknown for which the equation is true.