

My mathematical journey

What do I need to remember from before?

Area models for multiplication
(NP3)

Collecting like terms (A2)

*Mathswatch clips in brackets

What will I learn about in this unit at CEC?

Expanding expressions with brackets

(*MW A8)

Factorising expressions as the opposite of expanding

(*MW A9)

Expanding two brackets

(*MW A18)

Where does this lead?

Solving equations (A4)

Formulae (A5)

Inequalities (A8)

Quadratic expressions (A11)

Key words and symbols: what I need to say and write accurately

Word	Explanation
variable	a number that can change its value, represented by a letter such as x or a green tile when we do not know its value
constant	a number that does not change, is fixed
operation	something that takes input numbers and turns them into output numbers, such as addition (including subtraction), multiplication (including division), exponentiation (including roots)
expression	a collection of constants, variables and operations e.g. $4x$, $2p - 5$ and $x^2 + 3x + 6$ are all expressions
term	the parts of an expression separated by $+$ or $-$. e.g. in the expression $4x - \frac{1}{2}y$, the terms are $4x$ and $\frac{1}{2}y$
expand	write an expression containing brackets <i>without</i> the brackets, by multiplying e.g. $2(x - 5) = 2x - 10$
factorise	write an expression without brackets as a multiplication <i>with</i> brackets e.g. $2x - 10 = 2(x - 5)$