ALGEBRAIC NOTATION AND MANIPULATION											
Keywords:	Expression / Simplify / Term / Variable / Substitute / Coefficient / Equivalent / Solve / Expand / Factorise										
Definition / Description:	Expression: an algebraic statement	Simplify: collect like terms	Term: part of e an expression	Variable: a quantity that can have different values	Substit exchar or repla	ute: ige ace	Coefficient: a number or letter multiplying a term	Solve: find the result	Expan multipl of brac	d: y out kets	Factorise: separate into factor
Knowledge points:	Use and interpret notation Use letter symbols to represent unknown numbers in equations		Substitute into formulae Swap letter symbols in formulae for numbers to solve for an unknown	Algebraic vocabulary Understand and use expressions, equations, formulae, identities, inequalities and terms		Simple expre Collect expare brack factor brack	lify essions ct like terms, nding cets, rising into cets	Rearrange formulae Balance terms about the equation sign to make another unknown the subject of the formula		Equivalence and identities Use algebra to prove equivalent expressions and use the identity symbol	
Knowledge point examples:	<i>ab</i> in place of <i>3y</i> in place of <i>y</i> and 3 x a^2 in place of <i>a</i> in place of <i>a</i> $\frac{a}{b}$ in place of	faxb /+y+y y axa,a ³ kaxa a÷b	Find the value of x^2 when $x = 5$ When $x = 5$, replace the x in x^2 with 5 to make $(5)^2$. $5^2 = 25$	Expression: a Equation: $b = a$ Formula: $F = r$ Identity: $2 + b =$ Inequality: $a >$ Term: a or $2b$	+ 1 a + 1 ma ≣ b+2 1	Simpla + b= a +3a - bExpa $3(x += (3 x) += (3 x) +Factor6c - 8= 2 x= 2(3)$	lify: + $2a - 2b$ 2a + b - 2b = b nd: 5) (x) + (3 x 5) + 15 orise: 8d 3c - 2 x 4d c - 4d)	Rearrange: + 3 to make subject y = 2x + 3 (-3 on both s y - 3 = 2x (÷2 on both sides) $\frac{y - 3}{2} = x$	y = 2x x the	b x b 2(a + 5x + 6	x b ≡ b ³ b) ≡ 2a + 2 6x ≡ 11x
Linked Knowledge	Functions (Incl. Composite / Inverse) / Inequalities / Solve Linear Equations / Solve Quadratic Equations										

Maps