<u>Stage 8 – Algebra: Algebraic proficiency, Tinkering</u>

Know it!



Knowledge		
I know	How to use and interpret algebraic notation, including: a^2 b in place of a \times a \times b, coefficients written as fractions rather than as decimals	
I know	Simplify an expression involving terms with combinations of variables (e.g. $3a^2b + 4ab^2 + 2a^2 - a^2b$)	
I know	Factorise an algebraic expression by taking out common factors	
I know	How to use the laws of indices (including the 0 index)	
I know	How to change the subject of a formula	

Link it!



Backward	Forward
Algebraic notation	Quadratic expressions
Collecting like terms	·
Expanding a bracket	Proof – identities Negative & Fractional Indices
Substitution	inegative & fractional fraces

Prove it



What is wrong with this statement and how can it be corrected: $5^2 \times 5^4 = 5^8$?

Jenny thinks that if y = 2x + 1 then x = (y - 1)/2. Kenny thinks that if y = 2x + 1 then x = y/2 - 1. Who do you agree with? Explain your thinking.



Say it!

Vocabulary	Definition
Product	
Variable	
Coefficient	
Common factor	
Factorise	
Power/Index/Indices	
Subject (of a formula)	