

Algebra – Expressions & Formulae Curriculum Map

I can...

Grade 1 & 2

- Understand that different algebraic terms could represent different numbers
- Use the correct algebraic notation to write $3 \times c$ is $3c$
- Recall and understand that $5t$ means 5 multiplied by t (an unknown number)
- substitute values into an algebraic term with a coefficient of greater than 1
- Substitute a value into a simple algebraic fraction and understand the vinculum is a division

Grade 3

- Match an algebraic expression with multiplication or division to its worded description
- Simplify an algebraic expression involving addition and subtraction of algebraic terms and numbers
- understand the correct algebraic notation of d multiplied by e is de
- Find the value of an expression with a number of unknowns when given the value
- Substitute Positive and negative integers or decimals into expressions involving powers

Grade 4

- expand two sets of brackets and then simplify the resulting expressions
- factorise an expression that has both a letter and a number as a common factor
- substitute values into very complex formulae and expressions to find solutions to problems
- use the correct order of operations when substituting integers into very complex equations
- distinguish between equations, expressions and identities
- derive formulae using algebra
- expand single brackets
- relate expanding brackets to finding the area of a rectangle
- simplify an expression involving negative terms by collecting like terms
- find the solution to a real life problem by substituting the correct value into a formula or worded formulae

Grade 5 & 6

- expand double brackets where the terms have coefficients greater than 1
- factorise a quadratic in the form $x^2 + bx + c$
- change the subject of complex formulae that involve brackets, negatives,
- simplify an algebraic fraction by factorising the numerator, denominator or both
- factorise and simplify expressions using the laws of indices
- link a diagram to an expression involving powers
- square an expression in the form $x \pm y$ where x is an unknown and y is an integer
- expand and simplify expressions with indices, brackets and negative signs
- change the subject of a two step equation & Brackets

Spring 1

