

Algebra – Equations & Graphs Curriculum Map

I can...

Grade 1 & 2

- understand that either side of the equals sign needs to be the same value
- find the value of an unknown in a simple equation
- understand that an equation must balance
- find a missing number to make a simple equation balance
- construct and solve a simple one step equation
- I understand that a letter or a symbol can represent an unknown number
- use inverse operations to solve simple equations
- plot coordinates on an x&y axis*

Grade 3

- solve equations involving a divide
- solve equations where the answer is not an integer
- find the value of an unknown in a simple two step equation
- find a missing number to make a more complex equation balance
- construct an equation and make find the unknown to make it balance
- plot equations of lines in the form of $y=mx + c$ from a table*

Grade 4

- construct equations from diagrams with unknowns on both sides of the equation and solve
- solve equations with brackets and unknowns on both sides of the equations (with the unknown being negative)
- understand that $\sqrt{x} = \pm x$
- consider the order of operations to solve an equation
- construct an equation from a diagram involving shapes and find the missing component
- Plot Straight line Graphs from an equation in the form of $y=mx + c$*
- Plot a Quadratic Graph curve and identify a Quadratic graph.*
- solve graphically simultaneous equations by their intersection*

Grade 5 & 6

- solve a quadratic using factorisation
- solve a quadratic using the quadratic formula
- solve simultaneous equations where both sides need to be multiplied and with solutions that can be negative.
- construct and solve simultaneous equations
- solve equations with unknowns on both sides with brackets and negative unknowns
- solve an equation of the form $x^2 \pm a = b$
- construct complex linear equations from real life situations and solve
- identify the gradient and the y-intercept from a line on a graph and from its equation.*
- re-arrange equations to identify the gradient and y-intercept*

Spring 2

