Stage 9 - Solving Equations and Inequalities II

WHAT DO WE ALREADY know?

- Solve linear equations.
- Substitute numbers into formulae.
- Plot graphs of functions of the form y = mx + c, x ± y = c and ax ± by = c.
- Manipulate expressions by multiplying by a single term.

THE BIG PICTURE

- Understand that there are an infinite number of solutions to the equation ax + by = c (a ≠ 0, b ≠ 0).
- Find approximate solutions to simultaneous equations using a graph.
- Derive and solve two simultaneous equations.
- Solve problems involving two simultaneous equations and interpret the solution.

KEYWORDS

- Equation
- Simultaneous equation
- Variable
- Manipulate
- Eliminate
- Approximate
- Solution
- Solve
- Derive
- Interpret

Solving Equations and Inequalities II - Targets	Before Topic	After Topic	Teacher Mark
Understand that there are an infinite number of solutions to the equation ax + by = c (a ≠ 0, b ≠ 0).			
Find approximate solutions to simultaneous equations using a graph.			
Solve simultaneous equations in two variables in very simple cases (addition or subtraction but no multiplication required).			
Solve simultaneous equations in two variables in simple cases (multiplication of one equation only required with addition or subtraction).			
Derive and solve two simultaneous equations.			
Solve problems involving two simultaneous equations and interpret the solution.			