

# Stage 10 - Solving Equations and Inequalities I



## WHAT DO WE ALREADY *know?*

- Understand the concept of solving simultaneous equations by elimination.
- Solve two linear simultaneous equations in two variables where no multiplication is needed, or only one equation multiplication is needed.



- Solve simultaneous equations
- Solve problems involving simultaneous equations
- Find approximate solutions to complex questions

- Unknown
- Solve-late 14c., from Latin *solvere* "to untie, release, unlock"
- Solution set
- Interval
- Decimal search
- Iteration-"a saying or doing again, or over and over again; late 15c., from Latin *iterationem*
- Simultaneous
- Equations
- Substitution
- Elimination

### Solving Equations and Inequalities I - Targets

	Before Topic	After Topic	Teacher Mark
Understand the meaning of an iterative process			
Show that a solution to a complex equation lies between two given values			
Use an iterative formula to find approximate solutions to equations			
Use an iterative formula to find approximate solutions, to a given number of decimal places, to an equation			
Solve two linear simultaneous equations in two variables by substitution			
Solve two linear simultaneous equations in two variables by elimination (multiplication of both equations required and could have fractional coefficients)			
Derive and solve two simultaneous equations in complex cases			
Interpret the solution to a pair of simultaneous equations			