## **Stage 10 - Solving Equations**

and Inequalities II



- Understand the meaning of the four inequality symbols
- Find the set of integers that are solutions to an inequality
- Use set notation to list a set of integers.
- Plot graphs of linear functions stated explicitly and implicitly.



- Understand and use set notation
- Solve inequalities
- Represent inequalities on a graph



- Inequality
- Variable
- Manipulate
- Solve
- Solution set
- Integer
- Set notation
- Region
- Linear
- Functions

Solving Equations and Inequalities II - Targets	Before Topic	After Topic	Teacher Mark
State the (simple) inequality represented by a shaded region on a graph			
Construct and shade a graph to show a linear inequality of the form $y > ax + b$ , $y < ax + b$ , $y \ge ax + b$ or $y \le ax + b$			
Construct and shade a graph to show a linear inequality in two variables stated implicitly			
Construct and shade a graph to represent a set of linear inequalities in two variables			
Find the set of integer coordinates that are solutions to a set of inequalities in two variables			
Use set notation to represent the solution set to an inequality			