## Stage 10 - Solving Equations and Inequalities II

- Inequality
- Variable
- Manipulate
- Solve
- Solution set
- Integer
- Understand and use set notation
- Set notation
- Solve inequalities
- Represent inequalities on a graph
- Region
- Linear
- Functions

| Solving Equations and Inequalities II - Targets | Before <br> Topic | After <br> Topic | Teacher <br> 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 <br> or $\mathrm{y} \leq \mathrm{ax}+\mathrm{b}$ | $\mathrm{ax}+\mathrm{b}, \quad \mathrm{y}<\mathrm{ax}+\mathrm{b}, \quad \mathrm{y} \geq \mathrm{ax}+\mathrm{b}$ |  |  |
| 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 |  |  |  |

