

**Year 8 Mathematics**

Level	Algebra 1 - Knowledge, Skills, Understanding
Higher	<p><b><u>Forming &amp; Solving Linear Equations</u></b>            Solve linear equations with the unknown on both sides when the solution is a fraction            Solve linear equations with the unknown on both sides when the solution is a negative number            Solve linear equations with the unknown on both sides when the equation involves brackets            Recognise that the point of intersection of two graphs corresponds to the solution of a connected equation            Use fractions when working in algebraic situations</p>
	<p><b><u>Factorising &amp; Rearranging Formulae</u></b>            Understand that negative powers can arise            Change the subject of a formula when a two steps are required</p>
	<p><b><u>Inequalities</u></b>            Use a formal method to solve an inequality with unknowns on both sides            Use a formal method to solve an inequality involving brackets            Know how to deal with negative number terms in an inequality            Know how to show a range of values that solve an inequality on a number line            Use a number line to find the set of values that are true for two inequalities</p>
Intermediate	<p><b><u>Forming &amp; Solving Linear Equations</u></b>            Solve linear equations with the unknown on one side when the solution is a negative number            Solve linear equations with the unknown on both sides when the solution is a whole number            Know how to write products algebraically</p>
	<p><b><u>Factorising &amp; Rearranging Formulae</u></b>            Identify common factors (numerical and algebraic) of terms in an expression            Factorise an expression by taking out common factors            Know the multiplication (division, power, zero) law of indices            Be aware of common scientific formulae            Know the meaning of the 'subject' of a formula            Change the subject of a formula when one step is required</p>
	<p><b><u>Inequalities</u></b>            Recognise a simple linear inequality            Find the set of integers that are solutions to an inequality            Use set notation to list a set of integers            Use a formal method to solve an inequality</p>

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<b>Foundation</b>	<p><b><u>Forming &amp; Solving Linear Equations</u></b></p> <p>Identify the correct order of undoing the operations in an equation Solve one-step equations when the solution is a whole number (fraction) Solve two-step equations (including the use of brackets) when the solution is a whole number Check the solution to an equation by substitution</p> <p><b><u>Factorising &amp; Rearranging Formulae</u></b></p> <p>Simplify an expression involving terms with combinations of variables (e.g. <math>3a^2b + 4ab^2 + 2a^2 - a^2b</math>) Substitute positive and negative numbers into formulae</p> <p><b><u>Inequalities</u></b></p> <p>Understand the meaning of the four inequality symbols Choose the correct inequality symbol for a particular situation Represent practical situations as inequalities Know when to use an open circle at the end of a range of values shown on a number line Know when to use an filled circle at the end of a range of values shown on a number line</p>
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