



Year 8		Term 4		
Stage	Description			
	Section A Expressions and formulae	Section B Straight line graphs	Section C Solving equations	
Emerging	<ul style="list-style-type: none"><li>Know how to write products algebraically.</li><li>Manipulate algebraic expressions</li><li>Can expand terms written in brackets.</li></ul>	<ul style="list-style-type: none"><li>Understand the concept of the gradient of a straight line.</li><li>Find the coordinates of a straight line graph.</li><li>Sketch a linear graph</li></ul>	<ul style="list-style-type: none"><li>Choose the required inverse operation when solving an equation</li><li>Identify the correct order of undoing the operations in an equation</li></ul>	
Developing	<ul style="list-style-type: none"><li>Identify common factors (numerical and algebraic) of terms in an expression</li><li>Factorise an expression by taking out common factors</li></ul>	<ul style="list-style-type: none"><li>Find the gradient of a straight line on a unit grid</li><li>Find the y-intercept of a straight line</li></ul>	<ul style="list-style-type: none"><li>Solve one-step equations when the solution is a whole number (fraction)</li><li>Solve two-step equations (including the use of brackets) when the solution is a whole number</li></ul>	
Secure	<ul style="list-style-type: none"><li>Change the subject of a formula when one step is required</li><li>Change the subject of a formula when a two steps are required</li></ul>	<ul style="list-style-type: none"><li>Plot and interpret distance-time graphs (speed-time graphs).</li></ul>	<ul style="list-style-type: none"><li>Solve two-step equations (including the use of brackets) when the solution is a fraction.</li><li>Check the solution to an equation by substitution</li></ul>	
Excellence	<ul style="list-style-type: none"><li>Create a one-step formula from given information.</li><li>Create a two-step formula from given information.</li><li>Solve missing number problems expressed in words</li></ul>	<ul style="list-style-type: none"><li>Can plot and interpret time series graphs.</li></ul>	<ul style="list-style-type: none"><li>Solve missing number problems expressed algebraically.</li><li>Use Trial and Improvement to find an estimate for a missing number, showing clearly all steps used to solve the problem.</li></ul>	