


Subject	Year	Month	
Mathematics	10	March	
<b>Topic:</b>			
<b>Equations (linear)</b>			4 lessons
Content (Intent)			
<b>Prior Learning</b> Year 10 Algebra the basics October Year 10 Expanding single brackets November Year 9 Solving equations and inequalities February		<b>Future Learning</b> Year 10 Sequences April Year 11 Solving quadratic equations October	
<b>Objectives</b> <ul style="list-style-type: none"> <li>• Write expressions and set up simple equations;</li> <li>• Use function machines;</li> <li>• Solve simple equations;</li> <li>• Solve linear equations, with integer coefficients, in which the unknown appears on either side or on both sides of the equation;</li> <li>• Solve linear equations which contain brackets, including those that have negative signs occurring anywhere in the equation, and those with a negative solution;</li> <li>• Solve linear equations in one unknown, with integer or fractional coefficients;</li> <li>• Rearrange simple equations;</li> <li>• Substitute into a formula, and solve the resulting equation;</li> <li>• Find an approximate solution to a linear equation using a graph;</li> <li>• Solve angle or perimeter problems using algebra.</li> <li>• Write an equation to solve a word problem.</li> </ul>			
<b>Pedagogical notes (implementation)</b>		<b>How will understanding be assessed &amp; recorded (Impact)</b>	
Emphasise good use of notation. Students need to realise that not all linear equations can be solved by observation or trial and improvement, and hence the use of a formal method is important. Students can leave their answer in fraction form where appropriate.		<b>End of half term no</b> <b>End of Year</b> Year 10 exams in April	
		<b>How can parents help at home?</b>  <b>MathsWatch clips</b>  Qualification KS3: A10, A12, A13ab, A16, A17, A19ab, A25  Qualification KS4: 93, 95, 100, 101, 135ab, 136, 137	
<b>Further reading/discussion</b>			
<b>Reading / Enrichment</b>	<b>Literacy</b>	<b>Numeracy Links</b>	<b>Careers Links</b> Scientist, Data analyst Computer programmer Mathematician Financial analyst