

**Learning Programme – Mathematics – 5<sup>th</sup> Year – Set 2**

<b>Topic/ Content</b>	<b>Objectives/Skills (topic grade in brackets)</b>	<b>Homework</b>	<b>Assessment</b>	<b>Success Criteria (GCSE grades)</b>	<b>Stretch &amp; Challenge (Thirst for Learning)</b>
	<b>Michaelmas Second Half Term</b>				
<b>Changing the subject</b>	Re-arranging equations where the new subject appears once (4/5).	Two to three teacher marked pieces of homework will be set each half-term.	December mock examination – three full GCSE papers	Determined from December mock examination.  GCSE Grade boundaries dependent on the particular mock papers.	Students will be challenged using extension questions on the topics they are studying, designed to develop their ability to solve multi-staged problems.
<b>Changing the subject 2</b>	Re-arranging equations where the new subject appears more than once (6).				
<b>Basic Indices</b>	Understanding index notation. Multiplying, dividing and raising one power to another power (5). Understanding and using negative indices (7).				
<b>More Indices</b>	Being able to evaluate fractional indices (7).				
<b>Fractions</b>	Finding a fraction of a quantity, ordering fractions and simplifying fractions (3). Adding, subtracting & multiplying fractions (4). Understanding reciprocals and dividing fractions (4).				
<b>Algebraic fractions</b>	Add (8), subtract (8), multiply (6) and divide algebraic (8) fractions. Solve equations involving fractions with algebraic denominators (8/9).				