

**Learning Programme – Mathematics – 3<sup>rd</sup> Year – Set 3**

<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 First Half Term</b>				
<b>Algebraic Expressions</b>	Being able to use algebraic notation (3). Distinguish the meaning of 'expression', 'identify', 'equation' and formula (3). Simplifying algebraic expressions (3), expanding single (3) & double brackets (4) and factorising into a single bracket. (4) Algebraic substitution (3).	Two to three teacher marked pieces of homework will be set each half-term.	Half Term Test (week before October half-term)	Mainly determined from Half-Term test, however, class work & homework may also be used.  GCSE Grade boundaries dependent on difficulty of test.	Students will be challenged using extension questions on the topics they are studying, designed to develop their ability to solve multi-staged problems.
<b>Negative numbers</b>	Add, subtract, multiply and divide negative numbers (3).				
<b>Multiples, factors and powers</b>	Understand multiples, factors, primes, powers (3). Use prime factor decomposition (4). Find the HCF and LCM of numbers (5). Apply systematic listing strategies including use of the product rule for counting.				
<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>Fractions, decimals, percentages</b>	Converting fractions, decimals, percentages (3). Ordering fractions, decimals, percentages (4).				