



Curriculum Map: Year: 7 Subject: Maths

Topic	Key Knowledge <i>What will all students KNOW by the end of the topic?</i>	Key Skills <i>What key skills will be learnt/developed by the end of the topic? What will all students be able to DO by the end of the topic?</i>	Assessment Opportunities <i>What are the key pieces of assessment? How will students be assessed?</i>
Half Term 1	All students will develop their fluency, reasoning and problem solving in: <ul style="list-style-type: none"> • Place value • Conversions • Negative Numbers • Ordering numbers • Median 	All students will be able to: <ul style="list-style-type: none"> • Understand place value to 1,000,000 and 1 millionth • Convert between fractions, decimals and percentages • Convert metric units • Ordering numbers in a range of forms • 4 operations involving negative numbers • Find the median of a list of numbers 	All students will: Complete an end of term assessment on the topics completed within the half term.
Half Term 2	All students will develop their fluency, reasoning and problem solving in: <ul style="list-style-type: none"> • Addition and subtraction • Range • Perimeter • Angles 	All students will be able to: <ul style="list-style-type: none"> • Add and subtract numbers in any form • Find the range of a list of numbers • Find the perimeter of 2D shapes • Draw and measure lines and angles and understand standard mathematical notation • Understand and apply standard angle facts 	All students will: Complete an end of term assessment on the topics completed within the half term.
Half Term 3	All students will develop their fluency, reasoning and problem solving in: <ul style="list-style-type: none"> • Multiplication and Division 	All students will be able to: <ul style="list-style-type: none"> • Multiply and divide numbers in any form • Find multiples and factors of a number • Find the lowest common multiple and highest common factor of a pair of numbers • Find the area of rectangles and triangles 	All students will: Complete an end of term assessment on the topics

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	<ul style="list-style-type: none"> • Multiples and Factors • Mean 	<ul style="list-style-type: none"> • Find the mean from a list of numbers 	completed within the half term.
Half Term 4	<p>All students will develop their fluency, reasoning and problem solving in:</p> <ul style="list-style-type: none"> • Manipulating Algebra • Types of Numbers • Order of Operations 	<p>All students will be able to:</p> <ul style="list-style-type: none"> • Collect like terms in multiple variables and powers • Identify and calculate primes, squares, cubes and roots • Understand and apply BODMAS • Represent problems using algebra • Substitute numbers into simple expressions and word formulae 	All students will: Complete an end of term assessment on the topics completed within the half term.
Half Term 5	<p>All students will develop their fluency, reasoning and problem solving in:</p> <ul style="list-style-type: none"> • Percentages 	<p>All students will be able to:</p> <ul style="list-style-type: none"> • Find percentages of an amount using both calculator and non-calculator methods • Increase or decrease a given number using both calculator and non-calculator methods 	All students will: Complete an end of term assessment on the topics completed within the half term.
Half Term 6	<p>All students will develop their fluency, reasoning and problem solving in:</p> <ul style="list-style-type: none"> • Solving Equations and Inequalities 	<p>All students will be able to:</p> <ul style="list-style-type: none"> • Use functions machines to solve missing number problems • Solve equations and inequalities with unknowns on 1 side • Form and solve equations and inequalities with unknowns on 1 side 	All students will: Complete an end of year assessment on the topics completed within the year.