

Module/Unit of Learning	Taught During	What will students learn?	How does this develop expertise and challenge students?	Links to other subjects
<p><b>GCSE</b> <b>Higher Level Trig</b></p> <p><b>Further</b> <b>Binomial</b> <b>Expansion</b> <b>Calculus</b> <b>Functions</b> <b>Stationary Points</b></p>	<b>Autumn</b>	<p>Students will extend their knowledge of trigonometry to look at non-right angled triangles and applying their knowledge to real-life contexts with bearings.</p> <p>Interleaved within this will be their Further maths topics of binomial expansion, calculus, increasing and decreasing functions and second derivative and stationary points</p>	This work stretches the students to achieve the highest of grades and beyond fully preparing them for mathematics beyond GCSE	<p>Geography</p> <p>Duke of Edinburgh</p>
<p><b>GCSE</b> <b>Transformations of Graphs</b></p> <p><b>Further</b> <b>Sketching</b> <b>Functions and</b> <b>trig Identities</b></p>	<b>Autumn</b>	<p>Taking on their trigonometric knowledge students will graph these functions and identify common patterns and look at how transforming the functions affects the graphs. Interleaved within this will be their Further maths topics of sketching functions and trig identities</p>	This work stretches the students to achieve the highest of grades and beyond fully preparing them for mathematics beyond GCSE	
<p><b>GCSE</b> <b>Functions</b></p> <p><b>Further</b> <b>Trig Identities and</b> <b>Equations</b></p>	<b>Autumn</b>	<p>Building graph work of functions students will look at the algebraic forms and how to manipulate them. Interleaved within this will be their Further maths topics of trig identities and equations</p>	This work stretches the students to achieve the highest of grades and beyond fully preparing them for mathematics beyond GCSE	
<p><b>GCSE</b> <b>Vectors</b></p>	<b>Autumn</b>	<p>Students will learn about the concept of a vector. How to</p>	This work stretches the students to	<p>Geography and Science</p>

<b><u>Further</u> Functions and Domains</b>		represent journeys using them, and how to proof shape identities. Interleaved within this will be their Further maths topics of Functions and Domains	achieve the highest of grades and beyond fully preparing them for mathematics beyond GCSE	
<b><u>GCSE</u> Equations Revision inc Quadratics</b>  <b><u>Further</u> Tangents and Normals</b>	<b>Autumn</b>	Students will revisit their Core equation work of solving linear and quadratics using all 3 methods. Interleaved within this will be their Further maths topics of tangents and normal	This work stretches the students to achieve the highest of grades and beyond fully preparing them for mathematics beyond GCSE	
<b>Mixed Revision PPE Preparation</b>	<b>Autumn</b>	Students are now at a point to practise revision of various topics in mixed lessons. This will build on the exam skills needed for the upcoming PPE exams	This work builds the students exam technique allowing them to become experts at the GCSE.	
<b><u>GCSE</u> Iteration, Proof and Functions 2</b>  <b><u>Further</u> Factor Theorem</b>	<b>Autumn</b>	Students will learn iterative process, how to use algebraic proof and more functions!. Interleaved within this will be their Further maths topic of Factor Theorem	This work stretches the students to achieve the highest of grades and beyond fully preparing them for mathematics beyond GCSE	
<b>QLA from PPE</b>	<b>Spring</b>	Following on from the first round of PPEs, question analysis will highlight key topics per class to focus upon. Students will work on these areas in the groups	This work builds the students exam technique allowing them to become experts at the GCSE.	
<b><u>GCSE</u> Revision Block 1 Fundamentals</b>  <b><u>Further</u> Equations of Circles 3 Unknown Simultaneous Equations</b>	<b>Spring</b>	After the QLA from PPE round 1, topics will be chosen per group to focus upon the core areas that students can gain maximum marks from. Interleaved within this will be their Further maths topics of equations of circles and solving simultaneous	This work stretches the students to achieve the highest of grades and beyond fully preparing them for mathematics beyond GCSE	

		equations with 3 unknowns		
<b>GCSE Revision Block 2 Challenge</b>  <b>Further Matrices</b>	<b>Spring</b>	Students are now at a point to stretch their knowledge to the highest level and focus upon topics that will push them to the highest grade they are capable of.	This work builds the students exam technique allowing them to become experts at the GCSE.	
<b>GCSE Mind the Gaps</b>  <b>Further Maths Calculus Algebra Trig</b>	<b>Spring</b>	Students will work on confidence and exam technique by completing a Mind the Gap paper once per week, subsequent lessons each week will build on practising the key questions coming out as target areas. Interleaved within this will be their Further maths revision of calculus, algebra and trigonometry	This work builds the students exam technique allowing them to become experts at the GCSE.	
<b>Mixed Revision PPE 2 Preparation</b>	<b>Spring</b>	Students are now at a point to practise revision of various topics in mixed lessons. This will build on the exam skills needed for the final PPE in March	This work builds the students exam technique allowing them to become experts at the GCSE.	
<b>Mixed Revision</b>		Students are now at a point to practise revision of various topics in mixed lessons. This will build on the exam skills needed for the summer exams	This work builds the students exam technique allowing them to become experts at the GCSE.	
<b>QLA from PPE</b>	<b>Spring</b>	Following on from the second round of PPEs, question analysis will highlight key topics per class to focus upon. Students will work on these areas in the groups	This work builds the students exam technique allowing them to become experts at the GCSE.	
<b>Walking Talking Mock Week</b>	<b>Summer</b>	In the final throws of lessons before the exams, we will hone the skills of all students by going through a final paper in our walking talking mock format.	This work builds the students exam technique allowing them to become experts at the GCSE.	

		Students will hear experts go through the key exam technique and knowledge needed to further build their confidence in preparation for the exams.		
<b>Mixed Revision Summer Preparation</b>	<b>Summer</b>	Students are now at a point to practise revision of various topics in mixed lessons. This will build on the exam skills needed for the summer exams		

Pride

Respect

Success