

Module/Unit of Learning	Taught During	What will students learn?	How does this develop expertise and challenge students?	Links to other subjects
<b>GCSE</b> Primes, HCF and LCM	<b>Autumn</b>	Students will build their Core knowledge for the fundamentals of number and focus on breaking a number into a product of it's primes and using this to find the highest common factor and lowest common multiple	This work stretches the students to achieve the highest grade they are capable of	Computer Science
<b>GCSE</b> Working with Expressions	<b>Autumn</b>	Students will secure their knowledge of the fundamentals of manipulating algebra. From factorising, simplifying to rearranging.	This work stretches the students to achieve the highest grade they are capable of	Science
<b>GCSE</b> Quadratic Formula	<b>Autumn</b>	Students will learn that some quadratics can not be solved through factorising and therefore the application of the formula need apply. They will successfully memorise the formula and apply it in the correct situations.	This work stretches the students to achieve the highest grade they are capable of	
<b>GCSE</b> Area and Volume	<b>Autumn</b>	A revision of key area and volume work, with prisms, cones and pyramids.	This work stretches the students to achieve the highest grade they are capable of	Engineering and Science
<b>GCSE</b> Pythagoras and Trigonometry	<b>Autumn</b>	Recap of triangle with finding missing lengths and angles. Including stretching their work to more complex problem solving questions using trigonometry skills.	This work stretches the students to achieve the highest grade they are capable of	
<b>GCSE</b> Frequency Polygons, Stem and leaf, CF graphs and Box-Plots	<b>Autumn</b>	Students will focus on the statistical knowledge in this module, looking at representing data in a variety of ways and drawing conclusions based on these data sets.	This work stretches the students to achieve the highest grade they are capable of	

<b>Adaptive Learning 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> Surds and Indices</b>	<b>Autumn</b>	Students will focus on non-calculator techniques in working with number. They will break irrational numbers into surds and manipulate them and they will calculate and simplify using the rules their index rules.	This work stretches the students to achieve the highest grade they are capable of	
<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>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.	This work stretches the students to achieve the highest grade they are capable of	
<b><u>GCSE</u> Revision Block 2 Challenge</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><u>GCSE</u> Mind the Gaps</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.	This work builds the students exam technique allowing them to become experts at the GCSE.	
<b>Adaptive Learning 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>Adaptive Learning</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. Students will hear experts go through the key exam technique and knowledge needed to further build their confidence in preparation for the exams.	This work builds the students exam technique allowing them to become experts at the GCSE.	
<b>Adaptive Learning</b>  <b>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	This work builds the students exam technique allowing them to become experts at the GCSE.	