

Year 9	
Autumn 1 (September- October) & Autumn 2 (October- December)	<p>The start of year 9 is majority recap from lower Key Stage 3 to account for the fact that students come from a number of different middle schools, and we need to make sure they are all at the same level before we build upon this knowledge. Lower Key Stage 3 content is built upon to cover the final objectives from the Key Stage 3 national curriculum before the students start the Key Stage 4 national curriculum objectives in year 10. This should ensure that students are ready to progress into Key Stage 4 and have the necessary knowledge and skills, especially problem-solving skills.</p> <p>Care has been taken over the sequencing of topics, and students should notice topics being “drip fed” throughout the Key Stage 3 curriculum to help to avoid cognitive overload and help with understanding, fluency, and reasoning. For example, students covering plotting scatter graphs and lines of best fit in year 8 before covering correlation and predictions from a line of best fit in year 9.</p>
	<p>Topic 1: Key Number Skills Recap of lower KS3 content. Using a Venn Diagram to find the HCF and LCM.</p>
	<p>Topic 2: Angles All content is recap from lower KS3. Time will be spent on problem solving.</p>
	<p>Topic 3: Scale Diagrams Recap of lower KS3 content. Converting metric units, scale diagrams (constructing), map scales.</p>
	<p>Topic 4: Decimals Recap of lower KS3 content. Multiply a decimal by a decimal, divide numbers where the divisor is a decimal, problem solving.</p>
	<p>Topic 5: Fractions All content is recap from lower KS3. Time should be spent on problem solving.</p>
	<p>Topic 6: Rounding and Estimation</p>

	<p>Recap of lower KS3 content. Rounding to significant figures (more than 1sf HA only), estimation, truncation (truncation to decimal places HA only), problem solving.</p>
	<p>Topic 7: Collecting and Representing Data Recap of lower KS3 content. Construct and interpret pie charts, line graphs.</p>
	<p>Topic 8: Scatter Graphs Recap of lower KS3 content. Correlation, predictions from a scatter graph.</p>
<p>Spring 1 (January-February) & Spring 2 (February-March)</p>	<p>Spring half term still contains recap from lower KS3 to account for the fact that students come from a number of different middle schools, and we need to make sure they are all at the same level before we build upon this knowledge. Lower KS3 content is built upon to cover the final objectives from the KS3 national curriculum before the students start the KS4 national curriculum objectives in Year 10. This should ensure that students are ready to progress into KS4 and have the necessary knowledge and skills, especially problem-solving skills. Care has been taken over the sequencing of topics, and students should notice topics being “drip fed” throughout the KS3 curriculum to help to avoid cognitive overload and help with understanding, fluency, and reasoning. For example, students covering area and perimeter before problem solving with equations to allow them to answer questions that combine these topics.</p>
	<p>Area and Perimeter Recap of lower KS3 content. Properties of 3D solids, area of a trapezium, area of semi-circles and quarter circles, area of composite shapes, problem solving.</p>
	<p>Equations and Expressions Recap of lower KS3 content. Identities, equations, expressions and formulae; substitution into formulae, equations with unknowns on both sides, equations with brackets, equations and fractions, problem solving.</p>
	<p>Co-ordinates and Linear Graphs Recap of lower KS3 content. Gradient, $y = mx + c$, problem solving.</p>

	<p>Real Life Graphs Recap of lower KS3 content. Distance-time graphs, real life graphs, graphs of situations in geometry.</p> <p>Ratio and Proportion Recap of lower KS3 content. Value for money, recipes, ratios as linear functions (HA only), problem solving.</p> <p>Sequences Recap of lower KS3 content. Finding and working with the nth term (linear sequences only), geometric sequences.</p> <p>Percentages Recap of lower KS3 content. Reverse percentages (HA only), percentage change, simple interest, compound interest and depreciation, problem solving.</p> <p>Measures Recap of lower KS3 content. Speed, density, pressure.</p>
<p>Summer 1 (April-May) & Summer 2 (May-July)</p>	<p>The timetable rolls over at the end of summer half term 1 so year 9 students become year 10 students and start the Key Stage 4 (10) curriculum, therefore this section of the curriculum is only a few weeks long.</p> <p>Time for recap/problem solving/end of year assessments is built into lessons.</p> <p>Topic 1: Constructions and Loci Recap of lower KS3 content. Construct a circle, construct a perpendicular bisector, problem solving.</p> <p>Topic 2: Pythagoras' Theorem All new content. Pythagoras' Theorem, applying it twice (HA only), 3D Pythagoras (HA only), distance between two coordinates (HA only), problem solving.</p>