

Year: 10

Subject: Mathematics

Summer Term		
<i>Overarching Topic:</i>		
<i>What has come before and what comes later:</i>	<i>Fractions, ratio, congruence and similarity, algebraic manipulation, substitution and functions, area and perimeter review, volume, and surface area</i>	<i>Percentages review, direct and inverse proportion, histograms, review of circles, circle theorems, equations review, quadratic equations, quadratic graphs, and inequalities</i>
	Foundation	Higher
<i>The Big Questions (What questions will students be able to answer upon mastery of the topic?)</i>	<i>Can you solve linear equations in one unknown including those with the unknown on both sides?</i> <i>Can you derive an equation, solve the equation, and interpret the solution?</i> <i>Can you understand and use the concept and vocabulary of inequalities?</i> <i>Can you solve linear inequalities in one variable?</i> <i>Can you represent the solution set to an inequality on a number line?</i> <i>Can you identify interior and exterior angles of polygons?</i> <i>Can you deduce and use the angle sum in any polygon?</i> <i>Can you derive properties of regular polygons?</i> <i>Can you interpret maps and scale drawings?</i> <i>Can you use scale factors, scale diagrams and maps?</i> <i>Can you interpret and use bearings?</i>	<i>Can you calculate the surface area of spheres, pyramids, cones and composite solids?</i> <i>Can you calculate the volume of spheres, pyramids, cones and composite solids?</i> <i>Can you apply the concepts of congruence and similarity, including relationships between length, area and volumes in similar figures?</i> <i>Can you compare lengths, areas and volumes using ratio notation, making links to similarity and scale factors?</i> <i>Can you deduce expressions to calculate the nth term of quadratic sequences?</i> <i>Can you recognise and use simple geometric progressions and other sequences?</i>

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