

Fareham Academy Maths Overview – Year 8

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic(s)	Number and Geometry	Algebra and Geometry	Algebra and Geometry	Number and Probability	Geometry and Proportion	Statistics and Number
Topic Objectives	<p>Consolidate and extend understanding of number and place value.</p> <p>Extend understanding of properties of 3D shapes and apply prior knowledge of 2D shapes to circles.</p>	<p>Consolidate language of algebraic manipulation and extend understanding of equations.</p> <p>Apply transformations and extend enlargements.</p>	<p>Explore linear graphs and understand and use terminology of equation of a line.</p> <p>Accurately draw shapes and develop geometrical reasoning.</p>	<p>Investigate fraction, decimal and percentage skills.</p> <p>Extend language of probability and apply to experimental and theoretical scenarios.</p>	<p>Create constructions and accurate scale drawings, including Loci.</p> <p>Explore vectors and proportional reasoning.</p>	<p>Develop statistical knowledge when applied to real life graphs.</p> <p>Consolidate decimal calculations.</p>
Acquired Knowledge/Skills	<p>Explore skills of number, extend understanding of place value and indices.</p> <p>Develop application and terminology of 3D shapes.</p> <p>Explore terminology of circles and apply knowledge of 2D shape properties to circles.</p>	<p>Explore core terminology of algebraic manipulation, introduce forming, rearranging and solving linear equations.</p> <p>Create transformations, introduce and develop enlargements and link to prior learning.</p>	<p>Develop application of linear graphs and the equation of a line. Apply the equation of a line and introduce understanding of non-linear graphs.</p> <p>Develop geometrical reasoning using angle facts. Accurately draw 2D shapes and 2D representations of 3D shapes.</p>	<p>Extend application of fractions, decimal and percentages, including mixed numbers and percentage calculations.</p> <p>Apply probability language to theoretical and experimental scenarios.</p>	<p>Construct scale drawings and apply constructions to Loci and bearings.</p> <p>Explore vector notation and proportional reasoning including percentage growth and decay.</p>	<p>Interpret conversion and compound measure graphs, evaluate statistical graphs.</p> <p>Consolidate calculations involving decimals.</p>
Assessments	Formative Assessment: Number and Geometry	Formative Assessment: Algebra and Geometry	Summative Assessment: Algebra and Geometry	Formative Assessment: Number and Probability	Formative Assessment: Geometry and Proportion	Summative Assessment: Number and Geometry Algebra and Geometry Number and Probability Geometry and Proportion