

Fareham Academy Maths Overview – Year 10 Higher

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic(s)	Number and algebra	Algebra, number, statistics and geometry	Algebra and geometry	Algebra, geometry and probability	Algebra, proportion and geometry	Statistics and revision
Topic Objectives	<p>Consolidate and develop fluency of core number topics.</p> <p>Consolidate algebraic manipulation and develop understanding of equations.</p>	<p>Investigate iteration.</p> <p>Consolidate fraction, decimal and percentage conversions and calculations.</p> <p>Recap statistical diagrams and angles.</p>	<p>Apply linear graph skills to high-grade topics.</p> <p>Develop knowledge of geometric properties and constructions.</p>	<p>Recap combination of transformations.</p> <p>Evaluate methods of solving quadratic and simultaneous equations.</p> <p>Evaluate probability diagrams.</p>	<p>Develop inequalities skills.</p> <p>Introduce direct and inverse proportion.</p> <p>Evaluate congruence and similarity problems.</p>	<p>Evaluate statistical diagrams and apply knowledge to GCSE problems.</p> <p>Extend topics relevant to class or individual students.</p>
Acquired Knowledge/Skills	<p>Apply core skills of number and use of calculators. Apply number skills to high-grade topics.</p> <p>Apply algebraic manipulation around expressions and formula. Apply skills to solving equations of different forms.</p>	<p>Investigate iterative process for growth and decay.</p> <p>Consolidate fraction, decimal and percentage calculations.</p> <p>Recap averages and statistical diagrams.</p> <p>Develop understanding of angles and trigonometry.</p>	<p>Create linear graphs and apply this knowledge to extended problems, including parallel and perpendicular lines.</p> <p>Develop geometrical properties and constructions; apply this to complex scenarios.</p>	<p>Recap transformations and extend with combinations.</p> <p>Evaluate different methods of solving quadratic and simultaneous equations.</p> <p>Develop knowledge of representing probability diagrams and apply these effectively to scenarios.</p>	<p>Recap inequalities and develop understanding of plotting inequalities.</p> <p>Apply compound measures and introduce direct and inverse proportion.</p> <p>Recall congruence and similarity and apply to GCSE scenarios.</p>	<p>Apply knowledge statistical diagrams to GCSE problems.</p> <p>Reconsolidate understanding of any topics diagnosed throughout year as needing revision.</p>
Assessments	Mock Exam: Number and algebra	Mock Exam: Algebra, number, statistics and geometry	Mock Exam: Algebra and geometry	Mock Exam: Algebra, geometry and probability	Mock Exam: Algebra, proportion and geometry	End of year Mock Exam