

Overview of KS4 Foundation 9-1 Curriculum Topics: 3 year

Term	Year 9	Year 10	Year 11
1	<p>Number 1:</p> <p>Integers and place value, Decimals, Indices, powers and roots, Factors, multiples and primes</p>	<p>Transformations:</p> <p>Transformations I: translations, rotations and reflections, Transformations II: enlargements and combinations</p>	<p>Number:</p> <p>Fractions and reciprocals, Indices and standard form</p>
	Whole School Assessment 1/4	Whole School Assessment 1/4	Whole School Assessment 1/4
2	<p>Algebra 1:</p> <p>Algebra: the basics, Expanding and factorising single brackets, Expressions and substitution into formulae</p>	<p>Proportional Reasoning:</p> <p>Direct and inverse proportion, compound measures, Unitary ratios, Forward and reverse percentages, Interest, Similar and congruent shapes</p>	<p>Geometry:</p> <p>Similarity and congruence in 2D. Simple Vectors</p>
	<p>Data Handling 1:</p> <p>Tables. Charts and graphs, Pie charts, Scatter graphs</p> <p>Number 2:</p> <p>Fractions, Fractions, decimals and percentages, Percentages</p>	<p>Triangles 1:</p> <p>Right-angled triangles: Pythagoras and trigonometry</p>	<p>Complex algebra:</p> <p>Rearranging equations, graphs of cubic and reciprocal functions and simultaneous equations</p>
4	<p>Linear Algebra:</p> <p>Equations, Inequalities, Sequences</p>	<p>Probability 1:</p> <p>Outcomes, Sample space diagrams, $1 - p$, Relative frequency and experimental probability, Tree diagrams, Frequency trees, Venn diagram</p> <p>Multiplicative reasoning</p>	<p><u>Revision for GCSE based on QLA feedback</u></p>
	<p>Geometry 1- Angles:</p> <p>Properties of shapes, parallel lines and angle facts, Interior and exterior angles of polygons</p> <p>Data handling 2:</p> <p>Statistics and sampling, The averages</p>	<p>Quadratics:</p> <p>Factorising and expanding, Solving, Quadratic graphs</p>	<p><u>Revision for GCSE based on QLA feedback</u></p>
6	<p>Geometry 2:</p> <p>Perimeter and area, 3D forms and volume</p>	<p>Geometry 2:</p> <p>Plans and elevations, Constructions, loci and bearings, Circles, cylinders, cones and spheres</p>	
	Whole School Assessment 2/4	Whole School Assessment 2/4	Whole School Assessment 2/4

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Subject Leader: Katherine Ling	Date updated: June 2016
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