

Year 9

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Graphs and proportion	Algebraic expressions	2-D geometry	Equations and inequalities Geome	Geometry	Statistics

All should be confident and competent with Year 7 and 8 materials. Review of these prerequisites may be useful for each unit:

Read scales Linear equations Proportion Percentage increase and decrease	Make expressions Expressions and area Substitution Powers and roots Problem solving with a calculator	Area and circumference Angles on lines and in triangles Angles in parallel lines Pie charts	Linear graphs Sequences Manipulate formulae Problem solving with algebra	Compound areas FDP conversion Averages and the range	Venn diagrams and two-way tables Powers of 10 and standard form Number problems with fractions and decimals Problem solving with algebra
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All will have access to this specific Key Stage 3 content:

Cartesian coordinates Linear graphs Direct and inverse proportion Calculate with scales Standard form	Sequences including arithmetic and geometric Algebraic manipulation Change the subject of a formula Expansion Factorisation	Construction and loci Triangles and quadrilaterals (angle Congruence and similarity Angles in polygons	Construct and solve equations and Graphical solutions to simultaneous Quadratic and other graphs	Pythagoras' theorem Exploring trigonometry with a 30-60-90 triangle Transformations (translation, rotation, reflection) Use known angle and shape facts	Probability Mean of grouped data Compare two data sets Stem-and-leaf diagrams Scatter graphs
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As well as looking at the termly projects, highest attaining students may be stretched through depth by consideration of the following:

3-D coordinates Explore linear and non-linear graphs	Algebraic proof	Geometrical proof Euclidean geometry Complex constructions	Regions on graphs Linear programming Modelling	Further trigonometry Multiple transformations 3-D Pythagoras	Probability problems Equations of lines of best fit
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Throughout Year 9

Approximation and significant figures Addition, subtraction, multiplication and division with whole numbers, fractions and decimals Percentage increase and decrease, finding the whole given the part and the percentage
