

KS4 Curriculum Plan

		LP1	LP2	LP3	LP4	LP5
Year 10	TOPIC	<i>Similarity</i>	<i>Developing Algebra and geometry</i>	<i>Geometry, proportions and proportional change</i>	<i>Proportions, proportional change and delving into data</i>	<i>Using number</i>
	Knowledge	Congruence, similarity and enlargement and trigonometry	Representing solutions of equations and inequalities, Simultaneous equations and angles and bearings	Working with circles, vectors, ratios & fractions	Percentages and interest, probability, collecting, represent and interpreting data	Non-calculator methods, types of number and sequences, indices and roots
	Skills	Apply and demonstrate knowledge and understanding of mathematical skills to problem solve, using a range of modelling & mathematical representations. Use reasoning strategies to investigate mathematical concepts. Prove conjectures within the maths content taught.				
	Key Vocab	Congruence, similarity and enlargement: Enlarge, scale factor, centre of enlargement, similar, congruent, corresponding, parallel Trigonometry: Constant, cosine ratio, sine ratio, tangent ratio, inverse, hypotenuse	Representing solutions of equations and inequalities: Solution, variable, equation, expression, identity, linear, intersection, inequality Simultaneous equations: Solution, variable, equation, substitute, LCM, eliminate, expression, coordinate, intersection Angles and bearings: Cardinal directions, angle, bearing, perpendicular, parallel, clockwise, construct, scale, protractor	Working with circles: Circumference, area, diameter, radius, tangent, chord, frustrum, hemisphere, surface area Vectors: Direction, magnitude, scalar, column vector, resultant, parallel Ratios & fractions: Ratio, equivalent, proportion, integer, fraction, denominator, numerator, origin, gradient	Percentages and interest: Exponent, compound interest, depreciation, growth, decay, multiplier, equivalent Probability: Event, outcome, intersection, union, expected value, universal set, systematic, product Collecting, represent and interpreting data: Population, sample, representative, random sample, bias, primary data, secondary data, outlier	Non-calculator methods: Truncate, round, credit, debit, profit, tax, balance, overestimate, underestimate Types of number and sequences: Factor, multiple, HCF, LCM, arithmetic, geometric, sequence Indices and roots: Standard form, commutative, base, power, exponent, indices, negative, coefficient

		LP1	LP2	LP3	LP4	LP5
Year 11	TOPIC	<i>Algebra</i>	<i>Number</i>	<i>Ratio, Proportion & Data</i>	<i>Geometry & Preparation for exams</i>	
	Knowledge	Manipulating expressions, solving equations & inequalities, sequences and graphs	Percentages, types of number, standard form, exact calculations and limits of accuracy	Ratio, proportion, compound measures, probability and data	Area & perimeter, transformations & similarity, angles and Pythagoras' Theorem	
	Skills	Apply and demonstrate knowledge and understanding of mathematical skills to problem solve, using a range of modelling & mathematical representations. Use reasoning strategies to investigate mathematical concepts. Prove conjectures within the maths content taught.				
	Key Vocab	Manipulating expressions: Expand, highest common factor (HCF), factorise	Percentages: Exponent, compound interest, depreciation, growth, decay, multiplier, equivalent	Ratio & Proportion: Proportion, ratio, direct proportion, inverse proportion	Area & perimeter: Parallelogram, trapezium, pyramid, sphere,	