

GCSE Mathematics Curriculum Map – extension group

	HT1	HT2	HT3	HT4	HT5	HT6
Year 9					Silver number Multipliers, repeated % change, reverse %, standard form, estimation Silver algebra Forming and solving equations, factorising singles brackets, expanding double brackets, factorising quadratics, fractions, Examinations and activities week	Silver algebra Forming and solving equations, factorising singles brackets, expanding double brackets, factorising quadratics, fractions,
Year 10	Silver algebra Graphs (linear, quadratic, cubic, reciprocal), inequality graphs, simultaneous equations, formulae Silver shape Midpoints, Pythagoras' Theorem, transformations, vectors, area/volume scale factor, circle theorems, trigonometry Silver data Venn diagrams, two-way tables, tree diagrams, cumulative frequency, time series	Gold number Indices, bounds, exponential functions, recurring decimals, surds. Gold algebra Complete square, quadratic formula, quadratic inequalities, algebraic fractions, quadratic simultaneous equations	Gold algebra Proportion, trigonometric and exponential graphs, trigonometric equations, functions, transforming graphs, equation of a circle and tangents, numerical methods. Gold shape 3D Pythagoras and trigonometry, sine/cosine rule, sectors, surface area and volume cones spheres, congruence, vectors.	Gold data Histograms, sampling, tree diagrams and probability, enumeration. CONSOLIDATION OF GCSE TOPICS	GCSE past papers, examinations week and activities week.	Further number FDP, ratio, product rule, index laws, surds
Year 11	Further algebra Expressions, equations, graph sketching, factor theorem, functions, proof, sequences	Further algebra 1 Expressions, equations, graph sketching, factor theorem, functions, proof, sequences Further shape 1 Straight lines, distance between 2 points, equation of a circle, equations of tangents	Further algebra 2 Differentiation, maxima and minima problems, sketching curves Further shape 2 Multiplying matrices, the identity matrix, transforming matrices Combinations of transforming matrices	Further shape 3 Geometric proof, sine/cosine rules, Pythagoras' Theorem including 3D, trigonometry, trigonometric graphs, trigonometric identities, solving trigonometric equations Consolidation, revision and practice papers.	GCSE examinations 	