Maths Curriculum Overview 2022-2023

Year Group	HT1	HT2	HT3	HT4	HT5	HT6
7	Number, powers, decimals, HCF and LCM, roots and rounding	Expressions, substituting into simple formulae, expanding and factorising	Drawing and interpreting graphs, tables and charts Fractions and percentages	Equations, inequalities and sequences Angles, polygons and parallel lines	Statistics, sampling and the averages Perimeter, area and volume	**Revision of Year 7 for End of Year Test**
8	Real-life and algebraic linear graphs Transformations Ratio and Proportion	Right-angled triangles: Pythagoras and trigonometry	Probability	Multiplicative reasoning: more percentages, rates of change, compound measures	Constructions: triangles, nets, plan and elevation, loci, scale drawings and bearings	**Revision of Year 8 for End of Year Test**
9	Powers, decimals, HCF and LCM, positive and negative, roots, rounding, reciprocals, standard form, indices and surds	Expressions, substituting into simple formulae, expanding and factorising, equations, sequences and inequalities, simple proof	Averages and range, collecting data, representing data Fractions, percentages, ratio and proportion	Angles, polygons, parallel lines; Right-angled triangles: Pythagoras and trigonometry Real-life and algebraic linear graphs, quadratic and cubic graphs, the equation of a circle, plus rates of change and area under graphs made from straight lines	Perimeter, area and volume, plane shapes and prisms, circles, cylinders, spheres, cones; Accuracy and bounds Transformations; Constructions: triangles, nets, plan and elevation, loci, scale drawings and bearings	**Revision of Year 9 for End of Year Test**

10	Algebra: Solving quadratic equations and inequalities, solving simultaneous equations algebraically Probability	Multiplicative reasoning: direct and inverse proportion, relating to graph form for direct, compound measures, repeated proportional change Similarity and congruence in 2D and 3D	Sine and cosine rules, 1/2 ab sin C, trigonometry and Pythagoras' Theorem in 3D, trigonometry graphs, and accuracy and bounds	Statistics and sampling, cumulative frequency and histograms	Quadratics, expanding more than two brackets, sketching graphs, graphs of circles, cubes and quadratics	**Mock Exam revision** **Mock Exams: Maths Papers 1,2,3**
11	Circle theorems and circle geometry	Changing the subject of formulae (more complex), algebraic fractions, solving equations arising from algebraic fractions, rationalising surds, proof	Vectors and geometric proof	Direct and indirect proportion: using statements of proportionality, reciprocal and exponential graphs, rates of change in graphs, functions, transformations of graphs	**Mock Exam preparation: Bespoke QLA focus** **Mock Exams: Maths Papers 1,2,3**	**GCSE exams**