Subject: **Year 10H**	**Autumn HT 1**	**Autumn HT 2**	**Spring HT 1**	**Spring HT 2**	**Summer HT 1**	**Summer HT 2**
	Unit 1: Powers, decimals, HCF and LCM, positive and negative, roots, rounding, reciprocals, standard form, indices and surds - Calculations, checking and rounding - Indices, roots, reciprocals and hierarchy of operations - Factors, multiples, primes, standard form and surds **Unit 2: Expressions, substituting into simple formulae, expanding and factorising, equations, sequences and inequalities, simple proof** - Algebra: the basics, setting up, rearranging and solving equations - Sequences **Unit 3: Averages and range, collecting data, representing data** - Averages and range - Representing and interpreting data and scatter graphs	**Unit 4: Fractions, percentages, ratio and proportion** - Fractions and percentages - Ratio and proportion **Unit 5: Angles, polygons, parallel lines; Right-angled triangles:** - Pythagoras and trigonometry - Polygons, angles and parallel lines - Pythagoras' Theorem and trigonometry	**Unit 6: 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** - Graphs: the basics and real-life graphs - Linear graphs and coordinate geometry - Quadratic, cubic and other graphs	**Unit 7: Perimeter, area and volume, plane shapes and prisms, circles, cylinders, spheres, cones; Accuracy and bounds** - Perimeter, area and circles - 3D forms and volume, cylinders, cones and spheres - Accuracy and bounds **Unit 8: Transformations; Constructions: triangles, nets, plan and elevation, loci, scale drawings and bearings** - Transformations - Constructions, loci and bearings	**Unit 9: Algebra: Solving quadratic equations and inequalities, solving simultaneous equations algebraically** - Solving quadratic and simultaneous equations - Inequalities **Unit 10: Probability** - Probability **Unit 11: Multiplicative reasoning: direct and inverse proportion, relating to graph form for direct, compound measures, repeated proportional change** - Multiplicative reasoning	**Unit 12: Similarity and congruence in 2D and 3D** - Similarity and congruence in 2D and 3D