Maths Year 8 Curriculum Map

	Term 1 (September – December)	Term 2 (January – March)	Term 3 (April – July)
Year 8 THEMES	**Number** **Ratio, proportion and rates of change** **Algebra**	**Number** **Geometry and measures**	**Geometry and measures** **Algebra**
Build on prior knowledge gained in Year 7 Develop reasoning skills across Algebra and Geometry and measures Develop confidence and fluency across all disciplines Problem solving in real life contexts	**Unit 11: Properties of Number and Accuracy** Basic properties of numbers, rounding, BIDMAS, factors and multiples, reciprocals, square and cube numbers, standard form **Unit 12: Graphs** Coordinates and labelling, parallel and perpendicular lines, horizontal and vertical lines, plotting and applying y=mx+c, sketching graphs, quadratic, cubic and reciprocal graphs **Unit 13: Solving Equations and Inequalities** Language of algebra, linear equations, inequalities, simultaneous equations, quadratics **Unit 14: Ratio, Proportion and Percentages** Ratio, proportion, finding percentages, percentage increase/decrease, compound interest, reverse percentages, percentage change	**Unit 15: Measures** Time, metric and imperial units of measure, converting between metric units, converting between imperial units, converting between metric and imperial units, compound measures **Unit 16: Constructions** Loci, drawing 3D shapes, constructing angle bisectors, constructing perpendicular bisectors, constructing triangles **Unit 17: Transformations** Reflections, rotations, translations, enlargements, describing transformations, combined transformations	**Unit 18: Pythagoras and Trigonometry** Rounding, Pythagoras theorem, line segments and midpoints, introduction to trigonometry **Unit 19: Distance-Time Graphs** Compound measures, interpreting and drawing distance-time graphs, interpreting velocity-time graphs **Unit 20: Proof** Deciding if something is true or false, demonstration versus proof, algebraic explanations
Assessment	4 end of unit checkpoints End of term assessment (units 11 to 14)	3 end of unit checkpoints End of term assessment (units 15 to 17)	3 end of unit checkpoints End of term assessment (units 18 to 20)