Long-term planning Maths – Year 8



YEAR 8	Term 1	Term 2	Term 3
	(September – December)	(January – March)	(April – July)
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 21: Averages Simple charts, calculating averages, analysing the use of different measures of average, using grouped data 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	3 end of unit checkpoints	3 end of unit checkpoints
	End of term assessment (units 11 to 14)	End of term assessment (units 15 to 17)	End of term assessment (units 18 to 20)