		Year 10 GCSE M	athematics Higher tie	r Curriculum		
•	r every learner to be confide hematical skills, knowledge a Autumn Term 1 Investigating properties of shapes Investigate similar triangles Explore trigonometry in right-angled triangles Set up and solve trigonometric equations Use trigonometry to solve practical problems	ent and fluent mathem	naticians who enjoy ar	nd succeed in mathem		vith a solid Summer Term 2 Analysing statistics • Construct and interpret cumulative frequency graphs • Construct and interpret box plots • Analyse distributions of data sets
Big Idea/Theme	 Calculating Estimate with powers and roots 	Algebra: manipulation • Manipulate	Solving equations and inequalities II • Understand and	Algebra: visualising I • Explore	decay Solving equations and inequalities III • Solve quadratic	Algebra: visualising II • Investigate
	 Calculate with powers and roots Explore the impact of rounding 	algebraicfractionsManipulatealgebraicexpressions	 use set notation Solve inequalities Represent inequalities on a graph 	 exponential graphs Create and use graphs of non- standard functions 	equations Use graphs to solve equations 	features of straight line graphsKnow and use the equation o a circle with

				 Investigate gradients of graphs Find and interpret areas under graphs Investigate features of quadratic graphs 		 centre at the origin Solve problems involving the equation of a circle
Big Idea/Theme	 Solving equations and inequalities 1 Find approximate solutions to complex equations Solve simultaneous equations Solve problems involving simultaneous equations 	 Proportional reasoning Explore differences between direct and inverse proportion Investigate ways of representing proportion in situation Solve problems involving proportion 	 Calculating space Calculate surface areas of solids Calculate volumes of solids Solve problems involving enlargement and 3D shapes 		 Understanding risk Understand and use the product rule for counting Use Venn diagrams to represent probability situations Use two-way tables to represent probability situations Solve probability problems involving combined events 	 Mathematical movement II Explore the concept of a vector Solve problems involving vectors