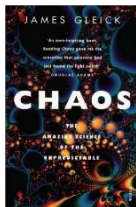


Curriculum Overview: Year 10 Maths

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Pythagoras Theorem Trigonometry	Linear Graphs Quadratics Sketching graphs	Circumference and area	Volume Growth and decay Probability	Standard form Vectors Bearings	Similarity Simultaneous equations
Links to prior learning Types of triangle ratio	Links to prior learning Substitution BIDMAS	Links to prior learning Equations Substitution	Links to prior learning Substitution Area Indices Fractions	Links to prior learning Indices Directed numbers Angle properties	Links to prior learning Solving equations Proportion and ratio
Stretch and Challenge Enquiry How to break down 3D questions involving Pythagoras and trigonometry?	Stretch and Challenge Enquiry What do the answers to solving quadratic equations tell us about the graph?	Stretch and Challenge Enquiry How do you work out the area and perimeter of sectors and arcs?	Stretch and Challenge Enquiry How do find the volume of donut shapes? How would use a tree diagram to solve a probability question involving 3 actions?	Stretch and Challenge Enquiry How do you represent vectors? How do vehicles that do not use roads navigate?	Stretch and Challenge Enquiry If you double the lengths of a box, how does this affect the it's volume?
Equipment Needed	Wider Reading			Family activities	
Scientific calculator Pair of compasses Ruler Pencil protractor	 <p>Chaos by James Gleick Chaos is what happens when the behaviour of a system gets too complicated to predict; the most familiar example is the weather, which apparently cannot be forecast accurately more than five days ahead. This book tells the story so far in the study of this new field of Physics.</p>			Maths games https://nrich.maths.org/9465	