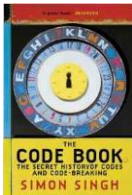


Curriculum Overview: Year 9 Maths

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Algebra Collecting and representing data	FDP Factorisation of equations	Polygons Area and perimeter	Statistics Algebraic graphs Loci	Inequalities Ratio and proportion Probability	Transformations Indices
Links to prior learning Substitution	Links to prior learning Fractions and ratio	Links to prior learning Lines and angles	Links to prior learning Substitution Averages	Links to prior learning Fractions Equations	Links to prior learning Reflections
Stretch and Challenge Enquiry How do you represent time series data?	Stretch and Challenge Enquiry How do you solve equations with unknowns on both sides of the equal sign? How can you factorise quadratic expressions?	Stretch and Challenge Enquiry How do you calculate the surface area of spheres, pyramids and cones?	Stretch and Challenge Enquiry How do you use the multiple loci instructions in a real life scenario?	Stretch and Challenge Enquiry Do experimental and theoretical probability ever produce the same answers?	Stretch and Challenge Enquiry Which two transformations completed one after the other is the same as one rotation? How do you use powers to calculate with square/cube roots?
Equipment Needed	Wider Reading		Family activities		
Scientific calculator Pair of compasses Ruler Pencil protractor	The Code Book by Simon Singh  The Code Book is a history of man's urge to uncover the secrets of codes, from Egyptian puzzles to modern day computer encryptions. As in Fermat's Last Theorem, Simon Singh brings life to an astonishing story of puzzles, codes, languages and riddles that reveals man's continual pursuit to disguise and uncover, and to work out the secret languages of others.		Maths games https://nrich.maths.org/9465		