

# KS4 Maths

Year 9			
	Topic Big Questions and length of study	Core knowledge and skills assessed	Checking Points
Autumn 1	How can we use rounding to estimate answers to complex problems?	Rounding, significant figures, indices, powers and roots	2
Autumn 2	Is the iPhone responsible for a decline in chewing gum sales?	Two-way tables, correlation, causation, scatter graphs, pie charts, formulae, equations	2
Spring 1	How do we work out the price of a TV BEFORE a discount?	Fractions, decimals, reverse percentages, original price	2
Spring 2	How can we predict what the price of milk will be in 50 years from now?	Sequences, equations, formulae, rule, pattern, Fibonacci, golden ratio	2
Summer 1	If a recipe is given for 4 people, how do I work out what it is for 7 people?	Ratio, proportion, recipes, direct proportion	2
Summer 2	Revision	Revision	1
Year 10			
	Topic Big Questions and length of study	Core knowledge and skills assessed	Checking Points
Autumn 1	How do Nike work out how much they should sell their trainers for?	Quadratic equations, roots, quadratic graphs, inequalities, surds	2
Autumn 2	Where should you stand to get the best mobile phone signal?	Circles, arcs, sectors, constructions, bisectors	2
Spring 1	How much leather do you need to make a football?	Volume of prisms, spheres, cones, similar shapes, pyramids, plans and elevations	2
Spring 2	How do we compare if your class did better in a test than another class?	Cumulative frequency, boxplots, correlation, averages from a table, time series data	2
Summer 1	How far away is the horizon?	Pythagoras' theorem, trigonometry, exact trigonometric values, sine and cosine rule, area of a triangle	2
Summer 2	PPE Preparation	Revision	1
Year 11			
	Topic Big Questions and length of study	Core knowledge and skills assessed	Checking Points
Autumn	How do we find the probability that a student studies History AND Spanish?	Venn Diagrams, Probability Trees, Sample Space Diagrams	2
Spring	Revision	Revision	3
Summer	Exam	Final GCSE EXAM	3