MATHS KS4

	Autumn Term	Spring Term	Summer Term
Year 10 (Foundation)	• Calculations and decimals • Basic algebra • Shapes and area • Presenting data • Fractions • Sequences	• Rounding and estimating • Circles • Probability • Metric measures • Percentage • Angles • Ratio and proportion	• Solving equations • Multiples, factors and primes • Indices • Scatter graphs • 3D shapes and volume • Straight line graphs • Averages and range
Year 11 (Foundation)	• Transformations • Errors and accuracy • Algebra recap • Area and perimeter recap • Fractions recap • Gradient and y=mx+c • Percentage change • Pythagoras theorem • Trigonometry • Simultaneous equation	• Standard form • Inequalities and rearranging formulae • Quadratics • Ratio and proportion • Bearings, constructions and loci • Averages from frequency tables • Volume and area of 3D shapes • Compound measures • Probability • Vectors	REVISION from workbooks and past papers
Year 10 (Higher)	• Area and perimeter of circles, sector and segments • Scatter diagrams and correlation • Probability • Simultaneous equations – linear and quadratic • Construction and loci • Indices • Cumulative frequency • Surds • Pythagoras	• Equation of a circle • Trigonometry • Algebraic fractions • Solving equations – linear and quadratic • Inequalities – including graphical, linear and quadratic • Percentages • Sine and cosine rules	• Sequences • Standard form • Histograms • Transformations • Quadratics, rearranging formulae and identities • Iteration • Circle theorems
Year 11 (Higher)	• Venn diagrams • Sketching graphs (including trig graphs) • Ratio and proportion • Vectors • Transformations of graphs • Volume and 3D shape	• Gradients and rates of change • Further equations and graphs • Pre-calculus and area under a curve **<u>SET 1 only</u>**: ***Further Maths Level 2 candidates*** to cover matrices, differentiation, binomial theorem, trigonometric identities, solving trigonometric equations.	REVISION from workbooks and past papers *It is expected that the majority of Set 1 will also be entered for the Further Maths Level 2 qualification alongside their GCSE Mathematics.* *Most topics are covered throughout Years 10 and 11 in parallel and as an extension to the GCSE course.*