



Key Stage 4 Higher Tier Curriculum Overview

Year 10				
Autumn	<ul style="list-style-type: none"> Calculations and rounding Calculating with indices Factors, multiples and primes Standard form 	<ul style="list-style-type: none"> Surds Algebraic manipulation Equations and formulae Sequences 	<ul style="list-style-type: none"> Averages and range Representing and interpreting data Scatter graphs 	<ul style="list-style-type: none"> Fractions and percentages Ratio and proportion
Spring	<ul style="list-style-type: none"> Polygons, angles and parallel lines Pythagoras' theorem Trigonometry 	<ul style="list-style-type: none"> Real-life graphs Linear graphs and coordinate geometry 	<ul style="list-style-type: none"> Quadratic, cubic and other graphs Perimeter, area and circles 	<ul style="list-style-type: none"> 3D shapes and volume Cylinders, cones and spheres
Summer	<ul style="list-style-type: none"> Accuracy and bounds Transformations 	<ul style="list-style-type: none"> Constructions, loci and bearings 	<ul style="list-style-type: none"> Solving quadratic equations Solving simultaneous equations 	<ul style="list-style-type: none"> Inequalities Probability
Year 11				
Autumn	<ul style="list-style-type: none"> Growth and decay Compound measures Congruence Similarity in 2D and 3D 	<ul style="list-style-type: none"> Graphs of trigonometric functions Further trigonometry Collecting data 	<ul style="list-style-type: none"> Cumulative frequency, box plots and histograms Sketching graphs Circle theorems; circle geometry 	<ul style="list-style-type: none"> Rearranging more complex formulae Algebraic fractions Rationalising surds Proof
Spring	<ul style="list-style-type: none"> Vectors and geometric proof Reciprocal and exponential graphs 	<ul style="list-style-type: none"> Gradient and area under graphs Direct and inverse proportion 	<ul style="list-style-type: none"> Revision and review 	

This framework follows the content and assessment objectives set out by DfE and Ofqual and, hence, reflects the requirements of GCSE mathematics offered by AQA, Eduqas, OCR and Pearson Edexcel.

