

GCSE Higher (9-6) Maths & Further Maths

Year 9 Spring Term

Calculations, Checking and Rounding
Indices, roots, reciprocals and hierarchy of operations
Factors, multiples and primes
Standard form and surds
Basic Algebra
Setting up, rearranging and solving equations
Sequences
Fractions

Year 9 Spring Term

Percentages
Ratio and proportion
Polygons, angles and parallel lines
Pythagoras' Theorem and trigonometry
Averages and range
Representing and interpreting data
Scatter Graphs
Graphs: the basics and real-life graphs
Linear graphs and coordinate geometry

Year 10 Autumn Term

Averages and range
Representing and interpreting data
Scatter Graphs
Graphs: the basics and real-life graphs
Linear graphs and coordinate geometry
Quadratic, cubic and other graphs
Perimeter, area and circles

3D forms and volume, cylinders, cones and spheres
Accuracy and bounds

Year 10 Spring Term

Transformations
Constructions, loci and bearings
Similarity and congruence in 2D and 3D
Solving quadratics and simultaneous equations, Inequalities
Probability
Multiplicative reasoning
Graphs of trigonometric functions
Further trigonometry

Year 10 Summer Term

Quadratics, expanding more than two brackets, sketching graphs, graphs of circles, cubes and quadratics
Circle theorems
Circle geometry
Collecting data
Cumulative frequency, box plots and histograms
HIGHER ALGEBRA
Vectors and geometric proof
ADVANCED GRAPHS
Direct and inverse proportion
Extension Algebra
Quadratic Sequences

Year 11 Autumn Term

Further Maths Topics

Number and Algebra 1
Co-ordinate Geometry
Algebra II
Geometry I
Algebra III
Geometry II
Algebra IV
Calculus
Matrices

Year 11 Spring Term

Revision to Exam