

GCSE Higher (9-4) 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

Year 9 Summer Term

Fractions
Percentages
Ratio and proportion
Polygons, angles and parallel lines
Pythagoras' Theorem and trigonometry
Averages and range
Representing and interpreting data
Scatter Graphs
Collecting data
Cumulative frequency, box plots and histograms

Year 10 Autumn Term

Averages and range
Representing and interpreting data
Scatter Graphs
Collecting data
Cumulative frequency, box plots and histograms
Graphs: the basics and real-life graphs
Linear graphs and coordinate geometry
3D forms and volume, cylinders, cones and spheres
Accuracy and bounds

Year 10 Spring Term

Transformations
Similarity and congruence in 2D and 3D
Solving quadratics and simultaneous equations
Inequalities
Probability
Multiplicative reasoning

Year 10 Summer Term

Graphs of trigonometric functions
Quadratics, expanding more than two brackets,
sketching graphs, graphs of circles,
cubes and quadratics
Circle theorems

Year 11 Autumn Term

Quadratics, expanding more than two brackets,
sketching graphs, graphs of circles,
cubes and quadratics
Circle theorems
Circle geometry
HIGHER ALGEBRA
Vectors and geometric proof
ADVANCED GRAPHS
Spheres and inverse proportion
Extension Algebra
Quadratic Sequences

Year 11 Spring Term

Revision to Exam