Haberdashers' Abraham Darby
Year 11 Higher Maths Learning Journey

This way to Year 12

Ready to build on for Year 12 sixth form or college.

GCSE Exams

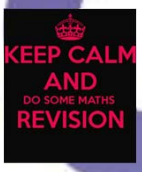
Exam Preparation
Build a portfolio of revision material, to help remember Powerful Knowledge and commit key information to long term memory. You will be tested on all the content learned over the GCSE.

Revision
Summer Term 2

Revision Exam Preparation
Be spoke revision programme.

Revision
Summer Term 1

Revision Exam Preparation
Be spoke revision programme.



Revision
Spring Term 2

Unit 19 Proportion and graphs
Use equations to solve direct and inverse proportion problems. Recognise and use graphs of inverse and exponential functions. Calculate the gradient of a tangent. Estimate the area under a non-linear graph. Understand the relationship between translating a graph and the change in its function notation. Reflecting and stretching graphs of functions

Mock Exam Preparation
Revise the Core and Powerful Knowledge and commit key information to long term memory. You will be tested on all content covered for the GCSE course.

Proportion and Mock Exam Preparation
Spring Term 1

Unit 16 Circle theorem
Understand, solve problems and use facts involving angles, triangles, radii, chords, and tangents to a circle. Use proof and give reasons for angle sizes. Use mathematical circle theorem language.

Unit 17 More algebra
Change the subject of formulae. Do calculations using algebraic fractions. Simplify expressions using surds. Rationalise the denominator. Solve algebraic fractions. Use function notation. Find composite functions. Find inverse functions. Prove results using algebra.

Unit 18 Vectors and geometric proof
Use vector notation. Find the magnitude of a vector. Calculate using vectors and represent solutions graphically. Express points as position vectors. Prove lines are parallel and points are collinear. Solve geometric problems and use vector methods for simple geometric proofs.

Circle theorem, Algebra and Vectors
Autumn Term 2

Unit 13 More Trigonometry
and tangent functions. Know and use the sine and cosine rule. Solve bearings problems using trigonometry.
Use Pythagoras' and trigonometry theorem in 3D problems. Undertake transformations of graphs. Recognise how changes in a function affect trigonometric graphs.

Unit 14 Further Statistics
Know how to undertake sampling. Draw and interpret cumulative frequency diagrams, box-plots and histograms. Comparing and describing populations.

Unit 15 Equations and Graphs
Solving simultaneous equations graphically. Representing inequalities graphically. Recognise and draw quadratic functions. Solving quadratic equations graphically. Draw and understand graphs of cubic functions.

Trigonometry, Statistics, Equations and Graphs
Autumn Term 1

KS4
Students will have worked through a comprehensive maths curriculum in Year 10 comprising elements of number, geometry, algebra, ratio and statistics

Start here