

Maths Department Curriculum Guide

Year 11 Higher

Curriculum

Autumn	Spring	Summer
Multiplicative reasoning. Solving quadratic & simultaneous equations. Pythagoras's Theorem & trigonometry. Graphs of trigonometric functions. Quadratic, cubic & other graphs. Quadratics, expanding triple brackets, graphs of circles. Further trigonometry. MOCK EXAMS.	Rearranging formulae, algebraic fractions, surds & proof. Reciprocal & exponential graphs, gradient & area under graphs. Probability. Similarity & congruence in 2D & 3D. Direct & Inverse proportion. Circle geometry. Vectors & geometric proof. MOCK EXAM & REVISION	Revision and exam practice. FINAL GCSE EXAM.

Assessment & Homework

Homework will be set by both Maths teachers on a fortnightly basis so that on average students will be set 1 assignment per week. Details of assignments will be set on Arbor and some will be on Mymaths, which is an excellent online resource that we subscribe to. Login details are reset and shared with pupils at the start of each academic year. At times there will be two tasks to do on Mymaths but these can be very short and pupils should expect to spend roughly 30 minutes on the Maths homework they've be assigned.

Assessments are conducted half termly and details of topics and schedule are shared with pupils before the assessments. These generally last an hour, the duration of a lesson.

Resources

- *Mymaths has a wonderful library of powerpoint lessons, which are accompanied by assessments.*
- *OneNote has tabs with the lessons teachers deliver, the scheme of work and knowledge organisers.*

Extra and Super Curricular Opportunities

There are two lunchtime clubs that students can attend. They are the Rubik's and code breaking club as well as a Maths catch up club, where students can do some work or play maths games.

Our top ability students are offered an opportunity to do the UKMT Intermediate Maths challenge. The top sets are also offered the opportunity to do GCSE Statistics and GCSE Further Maths as extra GCSE subjects.

Lunchtime intervention sessions will also be offered in the lead up to the exams to all students.