

Maths Department Curriculum Guide

Year 10 Higher

Curriculum

| Autumn | Spring | Summer |
|--------------------------------------|-------------------------|-------------------------------|
| Calculations, checking & | Fractions. | Sequences. |
| rounding. | Percentages. | Ratio & proportion. |
| Indices, roots, reciprocals and | Scatter graphs. | 3D forms &volume , |
| hierarchy of operations. | Cumulative frequency, | cylinders, cones and spheres. |
| Factors, multiples and primes. | box plots & | Accuracy and bounds. |
| Polygons, angles and parallel lines. | histograms. | Graphs: the basics and real- |
| Constructions, loci and bearings. | Setting up, rearranging | life graphs. |
| Standard form and surds. | & solving equations. | Linear graphs and coordinate |
| Algebra: the basics. | Inequalities. | geometry. |
| Representing and interpreting | Perimeter, area and | Circle theorems. |
| data. | circles. | Transformations. |
| Collecting data. | | Averages and range. |
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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. These 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 also offered an opportunity to do the UKMT Intermediate challenge as well as a team Maths feast against other schools.