

# Year 11 Mathematics

## Awarding Body: Edexcel

### Structure of the course:

Mathematics is a linear course assessed 100% by examination at the end of year 11.

There are three papers each of 1 hour and 30 minutes duration.

Paper 1 is non-calculator, Papers 2 and 3 require the use of a calculator.

All topics can be assessed in all papers - there is no defined split of topics between the papers.

**Foundation:** fractions, decimals, percentages, ratio and general number work. Algebra topics such as simplifying & manipulating expressions, forming and solving equations, drawing & interpreting graphs. Shape topics: calculating & using angles and bearings, calculating area and volume, identifying and drawing transformations and using Pythagoras' theorem. Statistics topics such as pie charts, averages and probability will also be assessed in the final exam. **The cross-over content that will be assessed at both higher and foundation level is: standard form; compound interest; reverse percentages; solving quadratic equations; solving simultaneous equations; trigonometry; vectors; and tree diagrams.**

**Higher:** the exam includes many of the topics covered at foundation level, but in greater depth. It also assesses pupils ability at solving non-linear simultaneous equations, using circle theorems, using direct and inverse proportion, identifying and using similarity & congruence and trigonometry in non-right angled triangles, **The grade 8/9 content that will be assessed includes expanding trinomials, turning points and gradient of curves, area under graphs, finding the nth term of quadratic sequences, and conditional probability.**

We aim to complete the course by February half-term 2023. All mathematics topics will be revised in lessons during the build up to the exams in 2023.

### Homework

Homework is set every week on SPARX Maths and EPraise and is planned to revise topics taught the previous half-term.

### Useful websites and books to help with revision

[mymaths.co.uk](http://mymaths.co.uk)

username: abbeypark password: decimal  
website that teaches content with flash based lessons and assessment.

[corbettmaths.com](http://corbettmaths.com)

Mr Corbett explains all the curriculum content on his videos. There are also practice questions that students can use.

[mathedup.co.uk](http://mathedup.co.uk)

A collection of useful revision resources. Particularly useful is the GCSE Maths Takeaway section.

[SPARXmaths.com](http://SPARXmaths.com)

Students can use their school login and password to access hours and thousands of questions for independent learning.

[mrbartonmaths.com](http://mrbartonmaths.com)

Another useful collection of revision resources.

[Mathsgenie.co.uk](http://Mathsgenie.co.uk)

Revision and past papers are available with videos and solution

### REVISION GUIDES

You will shortly receive a letter detailing how revision guides and revision cards may be ordered via student services with associated costs. We recommend that students purchase and use revision guides (you may have purchased these last year).

### AFTER SCHOOL PAST PAPER CLUB

Will be starting in January. Students collect a past paper which they complete at home. They bring it into school the following week where the mathematics teachers go through worked solutions. This has proved very effective

### Important Dates:

**Mock Exams: November 23<sup>rd</sup> & 24<sup>th</sup> 2023 and February 29<sup>th</sup> & 5<sup>th</sup> March**

Students sit mock exam papers based on the Edexcel 9-1 specification.

**Final Exams: May 16<sup>th</sup>, June 3<sup>rd</sup> & 10<sup>th</sup> 2024**

All 3 maths exams are usually in the morning and students will attend booster sessions immediately prior to each exam.