Southend High School for Girls
Sixth FORM

Course outline

Head of Key Stage 5 Mathematics and Lead Practitioner:
Mrs Sexton

Minimum entry requirements:
Grade 8 in GCSE Mathematics

Further Mathematics

What will you study in Year 12?

The Further Maths group have a bespoke programme to allow acceleration of the topics in the Mathematics A level. This will make the Further Mathematics course accessible more quickly. Further Mathematics lessons facilitate the completion of the content of the Mathematics A level before the end of Year 12, so you have all the skills required for the Further Mathematics content in Year 13.

What will you study in Year 13?

In Pure Mathematics (CP1 and CP2), you will learn about mathematical proof, matrices, complex numbers, vectors and first order differential equations. CP2 includes Complex numbers, Further algebra and functions, Further calculus, Polar coordinates, Hyperbolic Functions and Differential equations. These are compulsory modules.

There are several optional courses in addition to the CP1 and CP2. Two of FP1 (more Pure Mathematics), Statistics (FS1), Mechanics (FM1) or Decision Maths (FD1).

How will you be assessed during the course?

There will be a Knowledge and Skills test in November of year 12 as well as regular topic tests and assessments throughout the year. In April of Year 12, there will be a PPE, consisting of three papers to simulate the A level examinations in Year 13. The content will cover the whole of the A level course.

There will be four examinations of equal weighting: CP1, CP2 and the two optional modules. All of these will be examined at the end of Year 13.

Where will this course lead?

If you are thinking about studying Mathematics, Engineering or Physics at university, you are advised to take Further Mathematics at A level. It will assist your study in any of the science subjects and is essential if you are considering a career in Physics or Engineering. Some universities give lower offers for Mathematics based degrees if Further Mathematics is included.

Further information

This is the website for our examination board, Pearson Edexcel https://qualifications.pearson.com/en/qualifications/edexcel-a-levels/mathematics-2017.html

Students have opportunities to be Maths Captains and mentors supporting the department and other students.

Students have the opportunity to take part in the Senior UKMT Challenge.