



Fettes College

MATHS AT FETTES

IGCSE

All students study Mathematics at IGCSE (The International GCSE). The course the students study will depend on their ability and their intended course of study in the Sixth Form and beyond.

Students in sets 1 to 4 will be prepared for the Higher Tier IGCSE in Mathematics. This course is intended for those students that would normally achieve an A* to B grade. The IGCSE is an excellent grounding for students wishing to study A Level Mathematics or Higher or Standard Level of the IB in the Sixth Form.

Students in set 5 will take IGCSE Mathematics at Foundation level in which the maximum possible grade is a C.

We do the [Edexcel International IGCSE \(4400\)](#) in Mathematics examination which involves 2 papers. Each has a 50% weighting.

It is not possible to do A Level Mathematics from Foundation Tier as a B grade is required. The Mathematical Studies course at IB requires a minimum of a C grade at IGCSE Mathematics.

A LEVEL

We study the [MEI OCR A Level course](#). The **AS Level** consists of 3 modules: two in Pure Mathematics and one in Applied Mathematics. This course provides an opportunity for a student to continue an interest in Mathematics and to experience calculus for the first time. It also provides adequate Mathematical support for Physics, Chemistry or Biology at A Level but is not sufficient for entry into degree courses in Physical Sciences or Engineering.

To pass **A Level Mathematics** a student follows the AS Level course in the Lower Sixth Form and then takes 3 more modules in the Upper Sixth (2 Pure modules and 1 applied module).

Further Mathematics consists of 6 modules, at least two of which are in Pure Mathematics. Those students studying for A Level Mathematics and Further Mathematics take six A Level modules in the Lower Sixth and six Further Mathematics modules in the Upper Sixth.

It is possible to take only 3 modules in Further Mathematics in order to gain an AS Level in Further Mathematics.

IB

Mathematics HL

This course is intended for students who will be expecting to take degrees with a large mathematical content such as physics or engineering. We would expect students to have an A grade or better for entry to this course.

Assessment of all the IB Mathematics courses is by 80% external examination taken at the end of the Upper Sixth Form and by internal assessment which counts for 20% of the overall mark.

Please scroll to the bottom of this document for syllabus information.

Mathematics SL

This course is designed for students who expect to need a sound mathematical background as they prepare for future studies in subjects such as chemistry, economics, psychology and business administration. We would expect students to have a B grade or better for entry to this course.

Please scroll to the bottom of this document for syllabus information.

Mathematical Studies SL

This course is available at Standard Level (SL) only. It caters for students with varied backgrounds and abilities. Students taking this course need to be already equipped with fundamental skills and a rudimentary knowledge of basic processes. Students should have at least a C grade at GCSE if they wish to undertake this course..

COMPETITIONS

The pupils are encouraged to take part in several National Mathematics Competitions through the year. This is undertaken with enthusiasm and often provokes follow up classroom discussion. We take part in the UK Mathematical Challenges as well as the Scottish Mathematical Challenges. In addition we also take part in a national Mathematics competition against other Scottish schools.