Sir William Ramsay School

EMPOWERING EVERYONE TO ACHIEVE

A-Level Maths

Course Outline

Do you enjoy problem solving?

Would you like to apply your mathematical skills to a wide variety of theoretical and everyday life situations?

Mathematics is a stimulating and rewarding subject and is considered to be one of the subjects that offers the most options for higher education and professional qualifications.

An A-Level in Mathematics is a highly sought after and marketable qualification in its own right and is recognised by employers as an important area of study which develops excellent logic, reasoning and problem-solving abilities.

Course Requirements

Students who wish to study Maths at A-Level are required to have a Grade 5 in GCSE English and a GCSE Grade 6 in Maths.

Course Content & Assessment

This two-year course will cover three areas of Mathematics; Pure Mathematics, Statistics and Mechanics.

The Pure Mathematics section of the A-Level includes algebra, co-ordinate geometry, sequences, trigonometry, differentiation, integration and numerical methods.

The Statistics area covers sampling, probability, statistical distributions, data presentation and interpretation.

The Mechanics section includes kinematics, forces, Newton's Laws and moments.

At the end of the two years the course will be assessed through three 2-hour papers consisting of 100 marks. Papers 1 and 2 will be testing the students' Pure Mathematics skills and Paper 3 will be a combination of Statistics and Mechanics.

Students will be expected to use a calculator in all three papers.

Progression

Interest that is sparked by A-Level Mathematics often leads students to university degrees and to a variety of analytical, technical or applied careers using the skills and knowledge gained from the course.