A LEVEL MATHEMATICS

Mathematics is the study of patterns abstracted from the world around us, therefore it is clearly a very relevant subject with thousands of applications in almost all aspects of life.

It is an intellectually challenging course where you will develop your deductive reasoning and logical problem solving skills. At AS You will study three different modules, the balance is two thirds core mathematics and one third applied mathematics. Core mathematics includes algebra, co-ordinate geometry, differentiation and integration, algebra and functions, sequences and series, trigonometry, exponentials, logarithms, further differentiation and integration. The applied option in year one is statistics and this includes numerical measures, binomial and normal distribution, estimation, correlation and regression. In year two, further core principles are studied with another applied unit. Students studying at advanced level in mathematics must be well prepared in the basics before commencing the course. Students must have performed well at GCSE level, Grade B minimum.

LEARNING AND ASSESSMENT

The awarding body used is Edexcel mathematics and the students will find that much practising is needed to master the techniques presented by the teacher. Much of the time in class is spent focussing on developing your skills in mathematics after an initial input from the teacher. You will get 1:1 support from the teacher in these sessions.

There are three examinations in the first year for AS Maths and these are equally weighted. In the second year a further three examinations are taken.

PROGRESSION

A good grade in A level Mathematics opens doors into a wide variety of courses in Further and Higher Education. Some courses, especially in science and engineering, may require you to have A level Mathematics and many others like you to have it. A level Mathematics is a highly respected A-level and will help you to develop numerical skills and logical thinking necessary to employment and also courses at university.

FURTHER MATHEMATICS

This is only available to students with very high ability in mathematics, Grade A minimum. It develops a deeper understanding of mathematical principles and includes further units in pure mathematics and then different options in the applied areas, which may include further statistics, further mechanics or decision mathematics. Examinations are equally weighted.