Maths Pathway 1

Course description:

Studying A level Mathematics will teach you to think logically, process information accurately, and to understand and manipulate numbers and mathematical processes. These are all skills which will benefit you greatly. Mathematics A level is also one of the most useful subjects for university entry. Many degree courses may not require specific A level subjects but, of those that do, Mathematics is by far the subject most commonly required.

Qualifications required:

- In line with the entry requirements for a Pathway 1 subject.
- Minimum of Grade 7 in GCSE Maths. (Any student not in set 1 must be prepared to fill gaps in their GCSE knowledge)

Aims of the course:

- Study modules in Pure Mathematics
- Study modules in Applied Mathematics
- Develop skills in logic
- Develop analytical skills

Future prospects:

- On average, a mathematics graduate can expect to earn around £220,000 more in their lifetime compared to a person leaving education with two A-levels.
- As society becomes more technically dependent, there will be an increasing requirement for people with a high level of mathematical training. Analytical and quantitative skills are sought by a wide range of employers. Mathematics provides you with a broad range of skills in problem solving, logical reasoning and flexible thinking. This leads to careers that are exciting, challenging and diverse in nature. Whatever your career plans, or if you have no plans at present, a mathematics qualification provides you with particularly good job prospects.

Student feedback:

“Maths is good because you get instant feedback; it is either right or wrong!”

"It is hard to explain the satisfaction I feel when I solve a really complex problem"

Subject Teachers:

Mrs Dutt, Mr Marston, Mr Mitchell, Mrs Dave

Maths

Features of the course:

- This year we continue to study the new 2017 mathematics syllabus. This is designed to follow on from the 9-1 GCSE.
- Algebra, trigonometry and calculus are all studied in Pure Mathematics.
- Statistics explores the analysis, interpretation and presentation of data and will involve the use of a large data set.
- Mechanics is concerned with the study of forces that act on bodies and any resultant motion that they experience.
- For the full A level two year course there will be two Pure Maths exams and one Applied Maths (Mechanics and Statistics) exam.

A Level Modules

Pure Mathematics 1 (2 hours / 100 marks)

Pure Mathematics 2 (2 hours / 100 marks)

Statistics and Mechanics (2 hours / 100 marks)

Methods of Assessment:

It is planned to continue with the Edexcel (Pearson) exam board in line with the Mathematics GCSE.

Each A level module is equally weighted and is assessed through written examination. Calculators may be used in all examinations.

Mathematics A level does **not** currently involve any coursework.