Mathematics

Level: 3
Syllabus: WJEC
Duration of Course: 1/2 years
Course Venue: The John Frost School

Course Outline

'A' level Mathematics is divided into three main areas: Pure Mathematics; Mechanics and Statistics. Pure Mathematics develops skills in analysing and solving unstructured problems. Mechanics includes the study of static and dynamic forces. Statistics includes the interpretation of data and probability theory.

Entry Requirements

A pupil should have already achieved a grade A or above in GCSE Mathematics as well as the required number of GCSE passes to enter an 'A' level course. Mathematics is, inherently, a sequential subject. There is a progression of material through all levels at which the subject is studied. Therefore, the better the GCSE pass, the easier a pupil will find it to make the move to 'A' level.

What will I study?

All pupils will study Pure Mathematics – modules A and B will be studied in Years 12 and 13 respectively.

Pupils will also study Applied Mathematics which comprises of mechanic and statistics topics – modules A and B will be studied in Years 12 and 13 respectively.

How will I be assessed?

All modules are assessed by means of a written paper of varying duration (specified in brackets).
An AS consists of 2 modules: Pure Mathematics Module A – examined June Year 12 (2 hours 30 minutes)
Applied Mathematics Module A – examined June Year 12 (1 hour 45 minutes)

A full 'A' level consists of 4 modules. Pupils should complete two modules in Year 12 (as above) followed by:
Pure Mathematics Module B – examined June Year 13 (2 hours 30 minutes)
Applied Mathematics Module B – examined June Year 13 (1 hour 45 minutes)

Career Opportunities and Progression

'A' level Mathematics is an ideal qualification for progression to further studies in a wide range of degree courses across all disciplines. It is perceived as a valuable qualification that can create opportunities in most career sectors from Engineering to Law.