

DEPARTMENT

MATHEMATICS

TITLE OF COURSE

MATHEMATICS

LEVEL

HIGHER

RECOMMENDED ENTRY LEVELS

Grade A or B pass at National 5 Mathematics.

Please note that all candidates must be extremely competent on the following National 5 topics: factorisation, fractions, surds and indices.

COURSE CONTENT

Mathematics: Expressions and Functions (Higher)

The general aim of this Unit is to develop knowledge and skills that involve the manipulation of expressions, the use of vectors and the study of mathematical functions. The Outcomes cover aspects of algebra, geometry and trigonometry, and also skills in mathematical reasoning and modelling.

Mathematics: Relationships and Calculus (Higher)

The general aim of this Unit is to develop knowledge and skills that involve solving equations and to introduce both differential calculus and integral calculus. The Outcomes cover aspects of algebra, trigonometry, calculus, and also skills in mathematical reasoning and modelling.

Mathematics: Applications (Higher)

The general aim of this Unit is to develop knowledge and skills that involve geometric applications, applications of sequences and applications of calculus. The Outcomes cover aspects of algebra, geometry, calculus, and also skills in mathematical reasoning and modelling.

METHODOLOGY

Teacher led classroom management with direct teaching the prime approach.

Please note that a significant amount of homework makes up a core element of this course. In order to succeed, a lot of time and effort is required. Thus, only candidates who are serious about Higher Mathematics should take this subject.

ASSESSMENT

3 end of Unit assessments (internal) which will test minimum competence.

End of Course examination (external) which will be graded A, B, C, D or Fail comprising of Paper 1 (non-calculator) worth 60 marks and Paper 2 (calculator) worth 70 marks.

To achieve a full course award a grade a pupil must successfully complete all three end of unit assessments AND pass the final external exam.