

**Introduction:**

The CfE Higher Mathematics course follows on from National 5 Mathematics and offers a rich and stimulating variety of material. Pupils cover a wide range of mathematical techniques which, whilst being interesting in their own right, also provide the necessary grounding for many areas of future study.

**Aims:**

The course aims to enable pupils to develop the mathematical skills and understanding required for their present needs and for future demands in adult life, employment, further study and training. It also aims to develop an appropriate appreciation and enjoyment of the subject and an awareness of its importance in society and in the development of technology. It equips pupils with the skills needed to interpret and analyse information, simplify and solve problems, assess risk and make informed decisions.

**Course Description:**

The course comprises of three units:

**Mathematics: Expressions & Functions**

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 & Calculus**

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**

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.

The course consists of 24 SCQF credit points which includes time for preparation for course assessment. The notional length of time for candidates to complete the course is 160 hours.

The course assessment has two components.

Component	Marks	Duration
Question paper 1 (non-calculator)	55	1 hour and 15 minutes
Question paper 2	65	1 hour and 30 minutes