



# Course Choice Information - Mathematics

## Advanced Higher

### Course Information & Content

The course builds on and extends present mathematical skills, knowledge and understanding. The course offers students an enhanced awareness of the range and power of mathematics. The course aims to develop further confidence in mathematics and a positive attitude towards continued further study.

### Recommended Entry Requirements

Entry to the course will normally be for students who have achieved an A or B at Higher Maths.

### Course Specification

This course consists of three units in Mathematics,

- Geometry, proof and systems of equations
- Methods of algebra and calculus
- Application of algebra and calculus

The course content covers further study in differentiation, integration and vectors and introduces a more rigorous approach to other topics.

### Assessment

An external examination comprising two papers. The first of the two papers will be a non-calculator paper.

### Homework

Regular homework will be set by the class teacher. Students of Advanced Higher Mathematics will also be expected to complete their own private study and revision using past papers and other materials provided.

### Progression

Further study or employment in mathematical or physical sciences |computer sciences |engineering | biological and social sciences |medicine |accounting |business and management.

### Career Options

Accountant |Actuary |Aeronautical Engineer |Air Traffic Control |Architect |Bookmaker |Civil/Diplomatic Service Worker |Economist |Finance Worker |Insurance Risk Surveyor |Investment Banker |Management Consultant |Software Engineer and Development |Statistician |Stockbroker |Surveyor |System Analyst |Teacher

### [Further Information - SQA](#)

