Higher Mathematics (Course Code: C847 76)

SCQF Level 6 (24 Credit Points)

Why study Mathematics?

Mathematics is important in everyday life, allowing us to make sense of the world around us and to manage our lives. Using mathematics enables us to model real-life situations and make connections and informed predictions. It equips us with the skills we need to interpret and analyse information, simplify and solve problems, assess risk and make informed decisions.

You will also get to develop skills in the areas of algebra, geometry and trigonometry as well as learn elementary calculus.

The skills you learn in this course are useful in many careers involving engineering, medicine, technology, business and the physical sciences.

Career Pathways

To see what career areas this subject could lead to and the routes to get there, download and view these career pathways:

Animals, Land and Environment

Buying, Selling and Related Work

Computing and ICT

Construction

Engineering

Finance

Health and Medicine

Science and Maths

Teaching and Classroom Support

Transport and Distribution

What do I need to get in?

Entry is at the discretion of the school or college, but you would normally be expected to have achieved:

- **National 5 Mathematics**

What will I study?

This course develops, deepens and extends your mathematical skills necessary at higher level and beyond. Throughout this course, you will:

- acquire and apply operational skills necessary for developing mathematical ideas through symbolic representation and diagrams
- select and apply mathematical techniques and develop your understanding of the interdependencies within mathematics
- develop mathematical reasoning skills and gain experience in making informed decisions.

How will I be assessed?

The course assessment has **two** components **totalling 120 marks**:

- Component 1: question paper 1 (non-calculator) – worth 55 marks
- Component 2: question paper 2 – worth 65 marks.

The question papers will be set and externally marked by the Scottish Qualifications Authority (SQA).

The grade awarded is based on the total marks achieved across course assessment.

The course assessment is graded A-D.

Study Materials

- SQA Past Papers Mathematics Higher
- SQA Specimen Paper 1 (non-calculator) Mathematics Higher
- SQA Specimen Paper 2 Mathematics Higher
- SQA Understanding Standards Mathematics
- BBC Bitesize Mathematics Higher
- Ushare Study Resources

What can I go on to next?

If you complete the course successfully, it may lead to:

- **Advanced Higher Mathematics**
- **Advanced Higher Mathematics of Mechanics**
- **Advanced Higher Statistics**

Further study, training or employment in:

- Animals, Land and Environment
- Buying, Selling and Related Work
- Computing and ICT

- Construction
- Engineering
- Finance
- Health and Medicine
- Science and Mathematics
- Teaching and Classroom Support
- Transport and Distribution