

## Maths

### **Broad General Education**

The Broad General Education (BGE) Mathematics course aims to build strong numeracy foundations, foster logical problem-solving skills, and prepare learners for National Qualifications. It equips students with the mathematical understanding and confidence required for daily life, employment, and STEM careers.

- **Develop Numeracy & Fluency:** Enhancing confidence in essential skills like mental calculation, estimation, and working with fractions, decimals, and percentages.
- **Encourage Problem-Solving:** Teaching students how to analyse, interpret, and present numerical data in real-life and abstract situations.
- **Promote Financial Literacy:** Building real-world skills in personal finance, including budgeting, calculating interest, and money management.

**Build Logical and Spatial Reasoning:** Developing an understanding of shapes, geometric properties, measurement, and algebraic concepts.

### **National 4**

In this course you will build on your previous mathematical experience. You will learn to interpret information and solve problems relevant to real life and mathematical situations. You will use, explore and manage mathematical language and ideas, which are all important in scientific and research work.

The course has three compulsory units, plus an added value unit that assesses your practical skills.

### **Mathematics: Expressions and Formulae (6 SCQF credit points)**

In this unit you will:

- use mathematical operational skills linked to expressions and formulae, such as manipulating abstract terms, simplifying expressions and evaluating formulae
- cover aspects of algebra, geometry, statistics and reasoning.

### **Mathematics: Relationships (6 SCQF credit points)**

In this unit you will:

- solve equations, understand graphs and work with trigonometric ratios
- cover aspects of algebra, geometry, trigonometry, statistics and reasoning.

### **Numeracy (6 SCQF credit points)**

In this unit you will:

- use numerical skills to solve straightforward real life problems involving time/money/measurement
- interpret graphical data and situations involving probability to solve straightforward real life problems involving money/time/measurement.

### **Added Value Unit: Mathematics Test (6 SCQF credit points)**

In this unit you will:

- sit one question paper testing your mathematical operational skills, without the aid of a calculator
- sit one question paper testing your reasoning skills, where you can use a calculator.

**You must pass all the units to gain the qualification.**

**N5 Maths**

In this course you will build on your previous mathematical experience. You will learn and apply operational skills you need to develop mathematical ideas through symbolic representation and diagrams. You will select and apply mathematical techniques and learn about the interdependencies within mathematics. You will develop your mathematical reasoning and problem-solving skills while gaining experience in making informed decisions.

The course comprises three areas of study.

**Mathematics: Expressions and Formulae**

You will:

- develop skills linked to mathematical expressions and formulae, such as manipulating abstract terms, simplifying expressions and evaluating formulae
- learn aspects of number, algebra, geometry and reasoning.

**Mathematics: Relationships**

You will:

- develop skills linked to mathematical relationships, including solving and manipulating equations, working with graphs and carrying out calculations on the lengths and angles of shapes
- learn aspects of algebra, geometry, trigonometry and reasoning.

**Mathematics: Applications**

You will:

- develop skills linked to applications of mathematics, including trigonometry, geometry, number processes and statistics within real life contexts
- learn aspects of trigonometry, geometry, number processes, statistics and reasoning.

**Course Assessment**

The course assessment has two components totalling 90 marks:

- Component 1: question paper 1 (non-calculator) – worth 40 marks
- Component 2: question paper 2 – worth 50 marks.

The question papers will be set and marked externally by Qualifications Scotland (QS). The grade awarded is based on the total marks achieved across all course assessment components.

The course assessment is graded A-D.

### Higher Maths

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.

### Course Assessment

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 Qualifications Scotland (QS).

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

The course assessment is graded A-D.

### Advanced Higher Maths

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

- acquire and apply operational skills necessary for exploring complex mathematical ideas
- 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.

### Course Assessment

The course assessment consists of two components totalling 115 marks:

- Component 1 – Question paper 1 (non-calculator) (35 marks)
- Component 2 – Question paper 2 (80 marks).

Both question papers are 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.

[Link to Qualifications Scotland information on Maths national courses](#)