

Why Mathematics?

Mathematics is a rich and stimulating subject and plays an important part in everyday life. It helps us to make sense of the world around us and to manage our lives. And, it gives us many skills we need for life, learning and work.

Mathematics is an excellent choice not only because it is an important subject in its own right, but forms the basis of many other subjects. These include Chemistry, Biology, Physics, Computing and technological subjects. And, it is also central to other specialist subjects at higher level, such as astronomy or statistics. Studying Mathematics will improve your reasoning, analytical and problem solving skills. It will help you think in more creative and abstract ways. This means it gives you lots of valuable qualities when you go to look for work.

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

NATIONAL 4 MATHEMATICS

Details of Course Components

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

Mathematics: Expressions and Formulae

- manipulating abstract terms, simplifying expressions and evaluating formulae

Mathematics: Relationships

- solve equations, understand graphs and work with trigonometric ratios

Numeracy

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

Added Value Unit: Mathematics Test

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

ASSESSMENT

Your teacher or tutor will assess your work on a regular basis throughout the course. Items of work might include:

- practical work – working with real life plans or drawings, or using technology
- written work – investigative or project based tasks such as data collection or organisation
- class-based exams.

You must pass all units plus the added value unit to gain the course qualification.



FACULTY OF MATHEMATICS

Mathematics Staff :

Mrs Deborah Tocher
Mrs Jacqui Massie
Mrs Lindsey Drysdale
Mrs Moira Nicoll
Miss Louise Robertson

Career Areas:

- Construction
- Computing & ICT
- Engineering
- Finance
- Science & Mathematics
- Health & Medicine
- Transport & Distribution
- Manufacturing Industries

Courses in Turriff Academy

Advanced Higher Mathematics
Higher Mathematics
National 5 Mathematics
National 4 Mathematics
National 5 Applications of Mathematics
National 4 Applications of Mathematics

Useful websites to help you with your choices:

www.myworldofwork.co.uk
www.skillsdevelopmentscotland.co.uk

Further advice and information on these options is available from your subject teacher, guidance teacher and careers adviser.