CAREERS INFORMATION

careers scotland

Career Areas

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

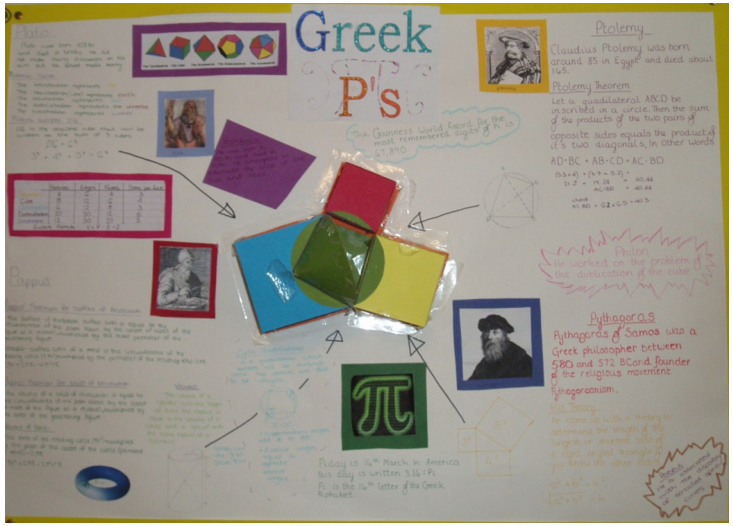
Further advice and information on these options is available from your subject teacher, guidance teacher and careers adviser.

OTHER INFORMATION

STAFF: Mrs Tocher, Mrs Murdoch, Mrs Massie, Mrs Drysdale, Mrs Nicoll, Miss Mitchell

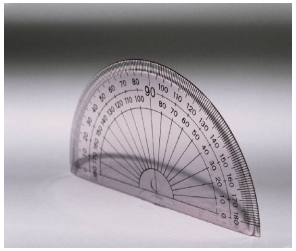
CHALLENGES

Mathematical Challenge
UKMT Mathematical Challenge
Enterprising Mathematics
Maths in the Pipeline



Mathematics

Mathematics Advanced Higher



TURRIFF ACADEMY
Email: turriff.aca@aberdeenshire.gov.uk

COURSE INFORMATION

Why Mathematics?

Advanced Higher Mathematics builds on your mathematical skills, knowledge and understanding and enables you to integrate your knowledge of different aspects of the subject. The course offers depth and breadth of mathematical experience and provides a sound basis for progression to further study or employment in the areas of mathematical and physical sciences, computer science engineering, biological and social sciences, medicine, accounting, business and management.

Course Outline

The course consists of **three** compulsory units and the course assessment unit.

Mathematics: Methods in Algebra and Calculus

- develop advanced knowledge and skills in algebra and calculus that can be used in practical and abstract situations to manage information in mathematical form. The Outcomes cover differentiation, integration, partial fractions and differential equations.

Mathematics: Applications of Algebra and Calculus

- develop advanced knowledge and skills that involve the application of algebra and calculus to real life and mathematical situations, including applications to geometry. The Outcomes cover the binomial theorem, the algebra of complex numbers, properties of functions and rates of change.

Mathematics: Geometry, Proof and Systems of Equations

- develop advanced knowledge and skills that involve geometry, number and algebra. The Outcomes cover matrices, vectors, solving systems of equations, the geometry of complex numbers, as well as processes of rigorous proof.

ASSESSMENT

Your work will be assessed by your teacher on an ongoing basis throughout the course. You must pass all three units and the course assessment to gain the course qualification.

The course assessment papers will be set and marked by SQA.

The course assessment is graded A-D.