Mathematics — Advanced Higher

What will I study?

Unit 1: Methods in Algebra and Calculus

Unit 2: Geometry, Proof and Systems of Equations.

Unit 3: Applications of Algebra and Calculus.

You will learn to select and apply complex mathematical techniques in a variety of mathematical situations, both practical and abstract. You will extend and apply skills in problem solving and logical thinking. It will include extending your skills in interpreting, analysing, communicating and managing information in mathematical form, while exploring more advanced techniques. You will learn to use the process of rigorous thought to clarify your thinking.

What skills will I develop?

- The ability to use mathematical reasoning skills to think logically, provide justification and solve problems.
- Knowledge and understanding of a range of complex concepts.
- The ability to select and apply complex operational skills.
- The ability to use reasoning skills to interpret information and to use complex mathematical models .
- The ability to effectively communicate solutions in a variety of contexts .
- The ability to explain and justify concepts through the idea of rigorous proof .
- The ability to think creatively .

How will I be assessed?

Three Internal assessments including Prelim and Mini Prelim. Candidates achieving a sufficient standard in these will go on to sit an Externally assessed SQA Examination made up of a single three hour paper worth 100 marks.

What help is Advanced Higher Maths after school?

Advanced Higher Maths is a great introduction to the University Level Mathematics required for many degree level courses such as:

- Any Mathematics Degree
- Any Science Degree
- Any Computing Degree
- Any Engineering Degree

Possible Careers

Information: SQA Advanced Higher Maths