

# Why Choose Mathematics?

**Mathematics** is concerned with analysing situations, making links with ideas, problem-solving and recognising order and pattern. Topics you will study include Algebra, Coordinate Geometry, Calculus, Vectors, Probability, Data Presentation and Interpretation, Kinematics, Forces and Numerical Methods. The course will be instrumental in developing important skills such as logical thinking, skilful manipulation of numbers and accurate processing of information and will provide you with the mathematical tools and techniques that are needed in the workplace.



Choose Mathematics as an option and you will have access to a range of enrichment activities to widen your experience. These opportunities include KS3 Sum Buddies, Glan Llyn Outdoor Education Trip, Maths Bake-Off, UKMT Senior Challenge, STEM opportunities, Mathematical Lectures, Workshops and Visits and STEP and MAT Paper Tutorials.



**At Alun School,** our experienced teaching team provide expert guidance and tuition in 5 weekly lessons. You will also have access to dedicated online support materials.

# Mathematics

## Assessment Information

### A Level Units

**AS Unit 1** - Pure Mathematics - 2 hours and 30 minutes written examination that makes up 25% of qualification.

**AS Unit 2** - Applied Mathematics: Section A: Statistics, Section B: Mechanics - 1 hour and 45 minutes written examination that makes up 15% of qualification.

**A2 Unit 3** - Pure Mathematics - 2 hours and 30 minutes written examination that makes up 35% of qualification.

**A2 Unit 4** - Applied Mathematics: Section A: Statistics, Section B: Differential Equations and Mechanics - 1 hour and 45 minutes written examination that makes up 25% of qualification.

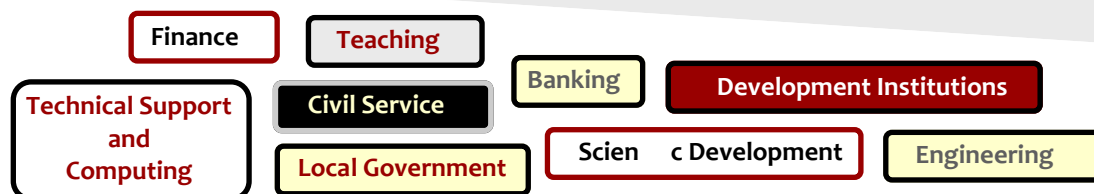
## Entry Requirements

You should have achieved a Grade B or above in GCSE Mathematics.

## Progression Routes

The transferable skills and knowledge you will gain through the study of Mathematics at Alun School will be invaluable in enabling you to access a wide range of courses at university.

Mathematics will give you an excellent grounding for multiple career opportunities including:



Every year, this highly successful course inspires many students to progress on to well-respected institutions to study a range of subjects including Mathematics, Economics, Physics, Engineering, Chemistry, Computer Science, Medicine, Pharmacy and Veterinary Science.

“A challenging and interesting subject taught by a team of well motivated and enthusiastic staff.”

“The mechanics module really helped with my Physics A Level and gave me the confidence to do Engineering at university.”

“I really enjoyed the opportunity to help develop the mathematical ability of younger pupils - they sometimes have very interesting ideas about maths.”

“I loved A Level Maths as I made great friends and the sense of humour between staff and students was fantastic.”

*former students*