

A LEVEL: MATHEMATICS

(AWARDING BODY AQA)



CONTENT

Pure Mathematics

Extend knowledge of topics such as algebra and trigonometry as well as learning some brand new ideas such as calculus.

Mechanics

Describes mathematically the motion of objects and how they respond to forces acting upon them, from cars in the street to satellites revolving around a planet. Mathematical modelling; this is, turning a complicated physical problem into a simpler one that can be analysed and solved using mathematical methods.

Statistics

Statistics deals with the collection, classification, analysis, and interpretation of numerical facts or data, by use of mathematical theories of probability and modelling.

The A level is assessed by three exam papers at the end of Year 13.

Paper 1: two hours (33.3% of A level)
100% Pure Maths

Paper 2: two hours (33.3% of A level)
50% Pure and 50% Mechanics

Paper 3: two hours (33.3% of A level)
50% Pure and 50% Statistics

PROGRESSION

Maths at A level is a course worth studying, not only as a supporting subject for Physics, Biology, Geography and Economics, but in its own right.

Although a challenge it is interesting both building on work met at GCSE and introducing new ideas.

It serves as a very useful support for many other qualifications as well as being a sought-after qualification for the workplace and courses in Higher Education.

Students studying mathematics at King Alfred Sixth Form gain a huge sense of pride in their achievements. Their success is a result of hard work and determination supported by a core of dedicated and enthusiastic teachers.

Students often return to King Alfred's School with tales of their University studies, grateful for the solid grounding A level Mathematics has given them. More and more Universities see mathematics as a 'facilitating subject', particularly for those wishing to study sciences or technology based subjects and computing.

Results in Mathematics are good and our recent alumni include:

- **Louis Jones grade A***
2021: Mathematics at the University of Bath
- **Ben Youd grade A***
2021: Economics at the University of St Andrews
- **Oliver Farnham grade A***
2021: Economics at University College London
- **Orren Meredith grade A**
2021: Mechanical Engineering at the University of Surrey
- **Izaak Rufus grade A**
2021: Politics and Economics at the University of Warwick

For further information about the course contact:
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