### Mathematics A Level

### Awarding Body: AQA

### Style of Course

The course reflects the view that as well as a subject which can be studied and enjoyed for its own sake, mathematics can also be used to model and solve problems in the real world. The **Core Mathematics** elements of the course will develop the skills and techniques necessary to manipulate and solve mathematically formulated problems. We trust that our students will develop an understanding of coherence and progression which will enable them to see ways in which mathematical reasoning can be used to inter-relate different areas of mathematics.

Students will also have the opportunity to apply mathematics in contexts in different areas of Mathematics.

The **Statistics** applications illustrate the application of mathematical probability to the drawing of inferences from data. The **Mechanics** applications allow students to apply mathematics to physical problems. This involves abstraction from a real-world situation to a mathematical description, selecting and using an appropriate model.

### Why Choose A Level Mathematics?

There are many good reasons to study Mathematics at A level.

Students taking Mathematics overwhelmingly find it to be an enjoyable, rewarding, stimulating and empowering experience. For someone who enjoys mathematics, it provides a challenge and a chance to explore new and/or more sophisticated mathematical concepts.

It enables students to distinguish themselves as able mathematicians in the university and employment market. It also makes the transition to a mathematics-rich university course much easier. The qualification is widely respected by universities and will leave many careers routes open to students.

### Structure of the Examination

GCE Advanced courses comprises of three assessment units which are examined at the end of Year 13.