

Course Content

A-level Mathematics is often thought of as a subject of complicated calculations. However, calculations form only a small part of this rigorous discipline which requires clear thinking and the development of specific ideas into generalised solutions. A-level Mathematics gives you the opportunity to study topics such as geometry, calculus and trigonometry (pure mathematics) and to use these ideas within the 'applied' topics such as mechanics and statistics.

Pure mathematics develops algebraic and geometrical reasoning and underpins the other disciplines. The work you do in and out of class will develop your ability to produce well-reasoned answers to extended questions. Although maths is highly logical, it also requires imagination and determination to work well on your own.

Mechanics is strongly linked to physics and builds on ideas of motion and forces to work out how and why objects move.

Statistics allows us to make sense of the complex and variable world around us via analytical methods in order to draw reliable conclusions from 'sets' of information.

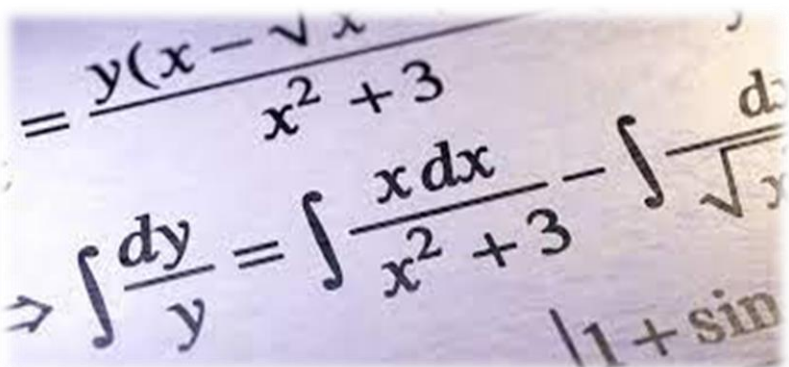
You will learn how to model real-life situations in mathematical terms, how models are refined and how to identify limitations within this process. You will be expected to use technology where appropriate; for example, the use of spreadsheets and graphical calculators to support statistical analysis. In addition, strong skills in algebraic manipulation are vital.

Further Studies and Career Opportunities

Mathematics is a highly respected A level and supports progression to a wide range of degree courses and careers. All science-based degrees require good maths skills, as do Engineering and many Computing and Economics-based and Social Science degrees.

Subject Entry Requirements

Grade 6



Subject Enhancement

Maths Challenge

How is this assessed?

Exam Board - AQA

Exams	✓
Coursework	
Other	