

**AQA Maths – Code: 6360 [Modules MPC1 / MPC2 / MPC3 / MPC4 / MD01 /MS1B**

## **What will I learn?**

The course is designed around developing your mathematical skills of analysis, proof, algebra and number. The main elements which you will carry through from GCSE include work on Surds, Trigonometry and Quadratic Equations & Graphs. These will be extended and expanded on, and linked to real life topics such as Optimisation of Resources and Statistical Analysis.

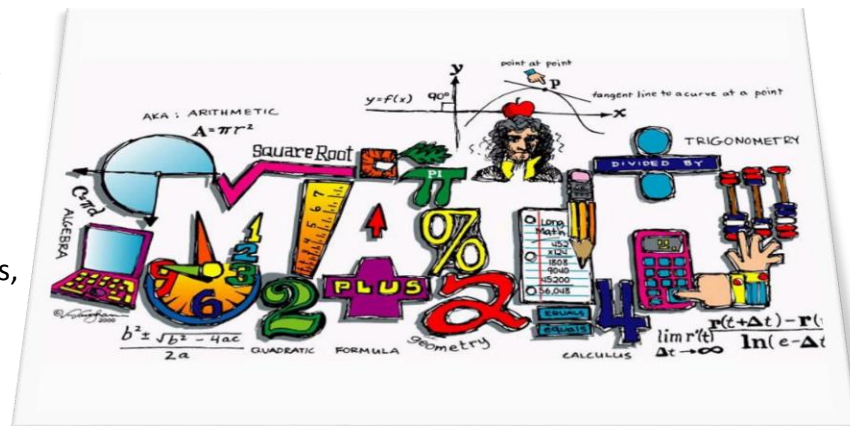
## **How is the course structured?**

Students will study four 'Core' modules across the two years. These initially build upon elements of GCSE, with the focus being to extend and re-contextualise. These areas include linear graphs, quadratic equations, trigonometry, index notation, completing the square, transformations of graphs, simultaneous equations and surds. Students are introduced to the equation of a circle, to differentiation and integration, quadratic inequalities, the discriminant, trigonometric identities, binomial distribution, sequences and series notation and the logarithmic scale.

In addition to these four modules, the students will study two 'additional' modules. These are called 'Decision' and 'Statistics' which look at project planning, logical thinking and algorithms, as well as probability, data handling and statistical analysis respectively.

## **How will I study?**

Activities will include group work, discussion, investigation and private study. It is suggested that for every lesson completed, an hour is spent reviewing the work and finishing exercises at home.



## **How will I be assessed?**

You will have 6 exams at the end of Year 13, each lasting 90 minutes.