



Mathematics - TBC

Course Content

A-level Maths provides students with a thorough grounding in the mathematical tools and techniques often needed in the workplace. The logic and reasoning skills developed by studying Maths make sure the qualification is widely respected even in non-mathematical arenas. The A-level is made up of both Pure and Applied Mathematics. The Pure Maths makes up two-thirds of the qualification and provide the techniques in Algebra, Geometry, Trigonometry and Calculus that form the fundamental building blocks of the subject. Mathematical applications make up the remaining third of the qualification and students will study Mechanics (forces, energy and motion) and Statistics (probability, data handling and testing hypotheses) in both AS and A2

Lesson Structure

Lessons will be delivered in a variety of ways - students are encouraged to take responsibility for their progress and are taught through some whole class teaching, one-to-one explanations, small group work and investigative exercises.

The Mathematics Department is well resourced with knowledgeable, qualified and experienced staff. Students will have two teachers for their Mathematics course and this allows for both the Applied and Pure areas to be taught in parallel.

Outside of lessons the department provides extra support for students including access to MyMaths online to support their learning at home in addition to all students being invited to attend Maths Clinic each week after school; a drop-in session run by A-level teachers which is brilliant for helping with home learning.

Assessment Pattern

The assessment is 100% exam based. Three 2 hour, equally-weighted, externally assessed written exams are taken in June of each year.

Extra Information

The study of mathematics can satisfy a wide range of interests and abilities. The strongest reason for studying mathematics to an advanced level is that it is interesting and enjoyable. People like its challenge, its clarity, and the fact that you know when you are right. The solution of a problem has an excitement and a satisfaction. The course emphasises how Mathematics can be applied to find solutions to not only theoretical models but real life problems as well.

According to the Russell Group informed choices guide, Maths is a 'facilitating' subject, which means that it will help you to study many other subjects and pursue lots of different careers. Maths helps supports the study of subjects like Physics, Chemistry, Engineering, IT, Economics, Business and Biology which can also help with your Maths revision. But studying Maths alongside an essay subject like English or History can help keep your options open for more jobs and university courses.

Finally, maths A-level can lead to just about everything! People with Maths degrees and other qualifications can go into: accounting, medicine, engineering, forensic pathology, finance, business, consultancy, teaching, IT, games development, scientific research, programming, civil service, design, construction and astrophysics to name a few... It's not surprising that Maths is popular A-level choice at Sandbach School!