

**CHARTERS SCHOOL
DEPARTMENT
INFORMATION
MATHEMATICS**





MATHS DEPARTMENT

This experienced department comprises nine full-time and four part-time mathematics teachers as well as a curriculum admin support officer. It is a professional and friendly group of people committed to the highest possible mathematical standards. The atmosphere within classrooms, as elsewhere in the school, is pleasant and purposeful.

The department is housed in a brand new, purpose built Mathematics block, containing 11 classrooms and 2 Science labs to allow collaborative STEM work. Each classroom has a learning wall and a digital projector. Laptops are available to use and use of ICT within lessons on either laptops or on students own devices is encouraged.

External examination results are very good at both GCSE and A-level. Last summer (2017), at GCSE, with 79% of our students achieving grades 9-4, with 28% of these being grade 9-7. At A-level 62% of students obtained at least a B grade. Every year we have a number of students preparing for Oxbridge entrance with many going on to study Mathematics or a Mathematics related degree at university.

We have embarked on a mastery programme at KS3 where Year 7 students are taught in mixed ability.

The course at KS3 identifies the sequence of topics to be covered and our scheme of work remains resolutely non-textbook based. We have incorporated problem solving activities into lessons for all students to improve the quality of our students' mathematical thinking. We also make active use of assessment for learning materials throughout all years.

We are committed to helping all students achieve their potential and expect every child to achieve a grade at GCSE. At KS4 students set according to the progress they are making. We regularly reorganise our groups to help maximise the potential of every individual. We are currently following the Edexcel course for both higher and foundation. All KS4 classes have regular problem solving lessons to equip students with the skills necessary to be successful in the new style GCSE.

There are four A-level groups in each year of the Sixth Form and we are currently following the Edexcel course. Students may provide their own text books or use the e-book, which we subscribe to. A level classes are split between two teachers. Further Mathematics is a popular choice at A Level with classes of 10-15 achieving excellent results.

We enter students at all three levels of the UKMT Maths Challenge, with a number of students successfully qualifying for the second round. Our most able Year 9 students are offered the opportunity to participate in local master classes. We regularly participate in the team Maths Challenges and welcome other opportunities for students to enrich their mathematical knowledge.

Teachers in the Department are always on the lookout for new ways to stimulate their students and excite their interest. Innovation in practice is welcomed and this contributes to making the department a hectic but exciting environment in which to work. Not content to rest on its laurels, the Department are committed to seek ways in which they can improve their teaching and learning.



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