

BARTON COURT GRAMMAR SCHOOL - MATHEMATICS

Facilities

The Mathematics Department has a suite of seven classrooms in a spacious new building each equipped with the latest Smartboard. Teachers make full use of the Smartboard software and use a range of other software packages including Boardworks and Autograph to make lessons interactive and dynamic. ICT rooms are bookable for independent study in lessons.

In years 7 – 11 students are set according to their ability. Each term the groups are reviewed and changes made based on teachers' assessment of students' unit test and examination results, class work and homework. Students are well informed of their current levels of achievement and take an active part in reviewing their own progress and setting targets.

A variety of activities are included in the 60 minute lessons e.g. puzzles, games, investigations, practical tasks as well as demonstration by examples, question and answer sessions, discussion and practice. Homework is set and marked regularly and all students have information on how assessments are made. High quality work and effort are rewarded with BCGS points.

Key Stage 3

KS3 (Years 7 & 8) mathematics is delivered through 7x 60 minute lessons per fortnight. Students are set according to ability in year 7 and the learning is supported by a wide range of practical activities, ICT and printed resources, ensuring that a variety of activities is offered to suit every type of learner. Students use up-to-date text books supported by excellent software and resources. The syllabus is delivered in fortnightly units, with a termly topic and summative assessment used to assess progress.

Key Stage 4

KS4 (Years 9 – 11) mathematics is delivered through 7x 60 minute lessons per fortnight. Learning is supported by a wide range of practical activities, ICT and printed resources, ensuring that a variety of activities is offered to suit every type of learner. We use a mixture of topic and summative assessments to assess progress. These are used to identify areas to improve upon, informing staff of areas to work on in fortnightly DIRT lessons.

Students are set again at the end of KS3, allowing for a lower set(s) of 15-20 students. All students will sit the GCSE (9 – 1) at the end of year 11 following the Edexcel specification. The most able may also take GCSE equivalent Further maths (we currently use AQA Level 2 Certificate in Further Maths).

Key Stage 5

A LEVELS

A level mathematics is a popular choice with 60 students opting to study the subject in year 12. Students studying for A level mathematics study the Edexcel specification.

Further mathematics is studied by a class of 15 students in year 12, following the Edexcel specification.