

BARTON MANOR SCHOOL - MATHEMATICS

Facilities

The Mathematics Department has a suite of six classrooms on the ground floor of our spacious new building each equipped with the latest Smartboard. Teachers make full use of the SMART notebook software and use a range of other software packages including Boardworks, Autograph, Maths Watch and Active Learn to make lessons interactive and dynamic. ICT rooms are bookable for independent study in lessons.

In years 7 – 11 students will be banded 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 will be well informed of their current levels of achievement and take an active part in reviewing their own progress and setting targets.

Teachers will follow the BCAT shape of a lesson using hierarchical learning objectives, including a do now activity, differentiated practice and mini-plenaries to review learning. Lessons should include a variety of activities to promote active learning as well as demonstration by examples, question and answer sessions, discussion and practice. Regular homework is set based on prior learning and marked regularly. Feedback is provided via the use of progress checks and whole class feedback at least once a week. Unit test assessments are conducted regularly using exam style questions. Praise is issued via Bromcom where Reward Points are accumulated. These will lead to rewards through the college system in Year assemblies.

Key Stage 3

KS3 (Years 7 - 8) mathematics is delivered through 8x 60 minute lessons per fortnight. Students are banded by 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 will be delivered through 8x 60 minute lessons per fortnight. Learning will be 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 will use a mixture of topic and summative assessments to assess progress. These will be used to identify areas to improve upon, informing staff of areas to work on in fortnightly DIRT lessons.

Students will be 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.

Key Stage 5

A joint Sixth Form with Barton Court Grammar School is planned and suitable courses post-16 will be discussed and agreed with the Mathematics Department nearer the time.

Staffing

In the early years of opening, staff will also be a member of the Barton court Grammar School (BCGS) Mathematics Department led by the Director of Mathematics to ensure consistency of standards and provide additional support. Staff at Barton Manor, if they wish, may have the opportunity to teach at BCGS and vice-versa to help form a collaborative team. Leadership roles will naturally develop as the school grows in size and opportunities for further promotion within the Mathematics Department and the wider school team will be readily available.