

Mathematics Department

This thriving department has the opportunity for a new member to join our team, this currently consists of 8 full time and 2 part-time members of staff. All are specialist teachers of Mathematics and create a vibrant department within the school. In addition, we have a Curriculum Support Assistant specific to the Maths department. We are looking for someone to join and contribute to our teamwork ethic and support the department in our ongoing success.

As a very successful department, we pride ourselves on our strong team spirit and our willingness to support both students and each other, providing a stimulating and collaborative learning environment in which all students are encouraged to achieve their potential.

We take part in UKMT Mathematics Challenges annually with all year groups and our students enjoy the participation and challenge it sets them.

We utilise the Sparx Maths homework system to consistently deliver bespoke weekly homework to all of our students in Key Stages 3 to 4. We saw great success with the system last year and as such are in the process of moving Key Stage 3 over to the Sparx curriculum. In September 2025 Years 7 and 8 will be following this curriculum and assessment schedule.



Key Stage 3

In Years 7-9, the use of interactive material is well established, linking the Numeracy framework with whole school teaching and learning methodologies in a positive manner. We have full integration of ICT as a teaching tool, with interactive boards regularly used to enhance the learning environment. The preparedness for the transition to Key Stage 4 reflects the outcomes of this dynamic approach.

We lead activities designed to engage our younger learners in the beauty of Mathematics and its functions in the real world. Each year, all Year 8 students participate in a ***Maths in the Workplace*** morning where guest speakers from a wide variety of career backgrounds present to our students the usefulness and applications of Mathematics in their everyday work.

In Year 7 our cross-curricular morning successfully invigorates learning by blending Maths, Dance, and Music. Students actively engaged with mathematical concepts like pattern, sequence, and spatial awareness, not just

theoretically, but through physical movement in dance and rhythmic exploration in music.

Key Stage 4

In Year 10 students follow the AQA 8300 linear syllabus. Our scheme of work has been adapted to incorporate more directed time and assessment of problem-solving skills necessary for students to demonstrate their understanding of mathematical concepts and to achieve their highest possible grades.

Our Year 11 students continue to follow the AQA 8300 linear syllabus, utilising OUP resources alongside a variety of other teaching texts. We achieved 87% Grades 4+ in 2024, 70% Grade 5+ and 33% Grade 7+. We are seeking to exceed this level with our current Year 11 students. Across the year we offer small group Mathematics lessons for students who are not making their expected progress to support them with their confidence in the subject and in achieving their target grade.

In our highest sets we parallel teach GCSE Mathematics and the Free Standing Mathematics qualification. The purpose for this is to stretch the student to the highest GCSE grades and prime them for A level Mathematics and Further Maths.

We also run two Key Stage 4 study clubs each Thursday after school, where students can access support from Mathematics teachers with their homework, revision or just explore certain areas of the curriculum in further detail. We feel this support enables students to tackle their difficulties promptly and confidently, resulting in better outcomes in their examinations.

Key Stage 5

Mathematics is a very popular subject in the Sixth Form. The number of students taking A-level courses has steadily increased over the years and now exceeds 60 in Year 12. All students follow the AQA syllabus. Our results over recent years have exceeded 89% Grades A*-C. Further Mathematics is also offered and sees these students achieving great success. It is a popular choice. Students study a range of areas of mathematics including pure mathematics, mechanics and statistics.

A key stage 5 Study Club runs every Thursday after school and offers our students a chance to get support with their independent study.



Please visit our website:

<http://fallibroome.academy/departments/mathematics>

