

Mathematics Department

This thriving department has the opportunity for a new member to join our team, this currently consists of 8 full time and 3 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.

There is a strong team spirit amongst the Maths colleagues who are supportive of both students and each other, providing a stimulating and collaborative learning environment in which all students are encouraged to achieve their potential. Improvement of numeracy is a central part of our Academy Improvement Plan.

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

We have a strong relationship with our feeder primary schools and deliver a transition lesson to the incoming Year 6 students helping to establish a relationship with them before they join us in September.

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 smart boards regularly used to enhance the learning environment as part of the department policy. The excellent results at KS3 reflect 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.

Key Stage 4

In Year 10 students follow the AQA 8300 linear syllabus, in line with the new Key Stage 4 curriculum. 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.

Each year some of our Year 10 students take part in the 'Alan Turing Cryptography Competition' led by the University of Manchester and attend the live challenge on campus. The students can show off their code-breaking skills and compete against other teams in a variety of exciting challenges. The students find the competition and day thoroughly enjoyable and we look forward to entering our 2022/2023 cohort of students.

Our Year 11 students continue to follow the AQA 8300 linear syllabus, utilising OUP resources alongside a variety of other teaching texts. We achieved 81% Grades 9-4 in 2019 and 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.

We also run a KS4 study club 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 and we have a very high retention rate from AS to A2. Our results over recent years have exceeded 95% 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/department/mathematics>

