Maths & Computing Learning Area

An overview of the Maths and Computing Learning Area

I am Mr Deledicq, the Head of Learning Area for Maths and Computing. We have 18 staff in our Learning Area which is housed in the East Wing of the academy.

The Maths Learning Area has six classrooms, including a dedicated computer room. Mossbourne is equipped with multiple IT suites and all students have access to school desktop machines to support their study in all subjects.

Maths
Curriculum

All pupils study maths for the duration of their time in secondary school. This study concludes with the GCSE examination in maths at the end of Year 11. An entry level qualification will also be offered to students for whom it is deemed appropriate.

Pupils begin their study of maths in Years 7 and 8 with a curriculum that pushes them to think deeply about mathematical concepts and number relationships as well as to develop some of the core skills they will need in subsequent years. In Year 9 pupils prepare to begin the GCSE course and then in the final two years the GCSE content is studied in-depth.

Beyond Year 11, Mossbourne Sixth Form offers A levels in Maths and Further Maths. Maths is the most popular subject in the sixth form with approximately half of sixth form students electing to study the subject.

Assessment

We assess students regularly in maths. This gives the teacher a clear picture of the areas students have, and have not, understood from lessons. We report on student progress, including the current working grade, to parents three times a year.

Homework

Homework forms an integral part of students' practice in maths. The homework we set gives students the opportunity to practice what they have learnt in class and further develop and embed those skills. Students will receive a piece of maths homework each week throughout Years 7-11.

Extra-Curricular Activities

There is a range of extra-curricula activities in maths including opportunities to compete in the 'UK Maths Challenge' and 'Count On Us' competitions as well as 'Problem Solving' and 'Chess' clubs after school.

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Outcomes

Outcomes are excellent year-on-year. In 2019, the value-added for maths was 0.97 which places us well above the national average. From the sixth form, many students each year go on to Russell Group universities, including Oxford and Cambridge, to study maths and other STEM subjects.

Computing
Curriculum
Students are taught the principles of computing in Year 7 to best prepare them for the GCSE option of Computer Science. All students also have the opportunity to develop their computational thinking skills in order to prepare them for the increasingly technical world of work. Mossbourne is equipped with multiple IT suites and all students have access to school desktop machines to support their studies in all subjects.

Assessment

As with maths, students are assessed half-termly in computing.

Homework

We provide a mixture of paper and online homework for students studying computing.

Further information on the Maths and Computing Curriculum

For further information about the subjects taught in the Maths and Computing Learning Area please see our curriculum maps.