



KING'S MATHS SCHOOL

SUMMER TERM 2019

A-Level Results

Our 70 graduating students have attained record-beating A-Level results, with an incredible 60% of entries at A* and 91% of entries at A* or A grades. Through these results, King's Maths School has continued to help students from all backgrounds progress to the most competitive futures: over one quarter of graduating students have secured Oxbridge places, with the most popular university destinations being Warwick, Oxford, Cambridge, Imperial and Bath. This has been a year of interesting gap years too, with students such as Abu and Jed taking up valuable internships for a year. With 100% of students attaining an A in Mathematics, it has also been a successful first year for the new linear A Level. Many thanks to Maggie, Tabs, Nabihah, Irina and KC for sharing their love of mathematics and inspiring girls all over the country to take up maths in their excellent BBC breakfast results day feature. Class of 2019, well done!

Curriculum X

Curriculum X, an extension programme for year 13 students, has now successfully completed its first year. The optional curriculum consists of several 6-week courses involving a substantial quantity of independent work. 69% of students completed at least 1 course; 27% completed 4 or more courses, and Orson, Reemon and Sae impressed by completing the maximum 8 courses all at distinction level. Participating students noted that Curriculum X provides an opportunity 'to push yourself far beyond the standard curriculum', as well as to 'get a fuller picture of the concepts taught at A-level' and 'prepare for university learning'. We look forward to the second year of this innovative curriculum!

UK Maths Schools

April marked the formal announcement of two additional UK maths schools in Lancaster and Surrey. With these opening alongside Liverpool, Cambridge, King's and Exeter, the

UK maths school family will soon number six! We now hope that this will inspire yet more universities to take up the call, and look forward to supporting these new schools.

King's Certificate

With the end of the academic year comes King's Certificate Day at Bush House, where Year 12 students have the opportunity to share their research findings with a wider audience. It was another incredibly successful event, where staff, governors, mentors, and KCL faculty, as well as a wide range of friends, family, and supporters came together to celebrate the achievements of our students. They tackled wide-ranging projects across the mathematical sciences and have grown into confident, discerning young scholars. Of course, this wouldn't be possible without our fantastic mentors who challenged our students with unique project briefs while also offering their support. We would like to thank our industry partners Dyson, Fractalis,



Sabina making jewellery on Culture Day, and students meeting with representatives of Man Group

and WSP, and our academic partners King's College London, Imperial College, and Westminster School. Thank you for your amazing support!

Man Group

July marked the announcement of a significant charitable donation from Man Group, a global active investment firm, to King's Maths School. Man's mission to diversify the investment workplace is well aligned with KCLMS's own vision to widen participation in degrees and careers in the mathematical sciences, and both the funding and the partnership will support this. Four areas of support have been identified at this stage: developing the new UK maths schools network, helping the school to attract high quality staff, the establishment of a KCLMS alumni programme and the development of new partnerships within both the academic community and industry.

Culture Day

At the end of this term a number of artists came in to lead

workshops at KMS. Students were invited to take part in activities ranging from jewellery making and animation to poetry, podcasting and photography. Highlights included Joe and Hafez's short film, made using the stop motion technique, in which a host of bizarre characters battle it out on the basketball court. Meanwhile, in the podcasting workshop, the students created fictional radio shows, including a broadcast from an imagined future in which Mars has voted to leave the solar system. Thanks to our very talented guests the day was a big success, and we look forward to working with them again soon.

Competitions

With so many examinations taking place over the summer term, our students still found time to engage with some difficult and fun problem-solving! Congratulations go to Sae and Shrimat, who correctly solved problems posed in the Maths Gazette and were recognised for this in print in the next publication. Estelle recently won 1st prize

in the national Financial Times/ Bank of England blog competition. The theme for the blog was 'What is the future of money?' and her winning post was published on the Bank Underground and FT online blogs. Estelle's blog, entitled 'Currency will no longer be determined by those in power', was chosen by a panel of leading economists, including Chris Giles, Economics Editor of the FT, Diane Coyle, Professor of Public Policy at the University of Cambridge and Sarah John, Chief Cashier and Director of Notes of the Bank of England. These esteemed judges praised Estelle for her engaging writing, insightful analysis and her understanding of developing economies' experiences with new types of currency.

WEEKLY MATHS CHALLENGE

Solve this polynomial equation algebraically:

$$x^4 - x^2 = (x + 1)^4 - (x + 1)^2$$