



KING'S MATHS SCHOOL

SUMMER TERM 2016

OUTSTANDING EXAM RESULTS

We are delighted to share with students, staff past and present, parents and carers, colleagues at King's College London, sponsors, governors and friends of the school our first every A-level results. We hope you agree that our students have achieved incredibly highly, and that they deserve the greatest of praise.

Every single one of our graduating cohort attained an A* or A grade in Mathematics, with an incredible 83% gaining an A*. With 95% of all grades A*-B, including 40% A* grades (the highest for any state school in the country), it is no wonder that so many of our students have secured such good places at university.

Nine students are off to study at Oxford and Cambridge: Sam Bird (Mathematics), Alice Collier (Engineering), Shaams Dally

(Computer Science), Jack Darrant (PPE), Kirsten Land (Mathematics), Christopher McGarry (Mathematics), Yiyun Shao (Computer Science), Ursula Shaw (Natural Sciences) and Marcus Waller (Engineering).

Students are going on to read Mathematics, Physics, Engineering, Computer Science, Economics and everything in between at over 20 different universities all over the UK. Bristol, Warwick, Oxford and Bath each took five or more of our students – lucky them!

University study isn't the right path for everyone, as Nathalie Moore has shown – she has already taken up her place on a Dyson engineering apprenticeship, which includes training to degree level.

The AS results are just as fantastic, with 92% of all grades A or B, and an incredible 40 students gaining at least three A grades. Economics

has proved to be a welcome, popular and successful addition to the AS curriculum, and has helped students to secure better AS results than we saw a year ago – in other words, the future is bright!

Progress from GCSE attainment is strong too, with every student attaining on average over half a grader higher in each subject than their GCSE grades predict.

King's Maths School was set up to increase the number of well-trained young mathematicians going on to degrees and careers involving a high degree of mathematics. So far, so good!

GRADES AT A GLANCE

- 100% A*-A in Mathematics
- 95% A*-B in everything
- 85% students going on to the most competitive universities and apprenticeships



Above: Athletes competing in Sports Day.

SPORTS DAY

On Monday 11 July, the athletics track at Regent's Park hosted KCLMS's first ever Sports Day. Students vied against one another in track races, including 100m, 400m, 800m and a 4x100m relay. Representatives from each house also competed in shotput, long jump, tug of war, as well as in egg and spoon, wheelbarrow, sack and three-legged races.

The students were kitted out in their house colours, morale was high and everyone was in competitive spirits. School records were set in every category, with special mentions going to Sam Critchley and Adam Clark, setting times of 12.6 seconds in the 100m race. Highlights of the day including the staff limping home in 4th place after entering a team in the relay, and Turing winning a fiercely contested tug of war.

This year's Victrix Ludorum was Hannah Gleed, with her winning performances in the long jump, 100m and 800m. Congratulations to Maxwell for their victory, the first house to be inscribed on the Sports Day Crest!

EDUCATE AND CELEBRATE

The hard work of Mr Robson and the Educate and Celebrate team has really paid off this year - KCLMS has been awarded 'Bronze Status' as a 'Best Practice School.' This is for their work in promoting an LGBT+Inclusive school policy, curriculum, community and environment. Together with 60 other schools across the UK, Mr Robson and the team have demonstrated the school's commitment towards eradicating homophobia, biphobia and transphobia in school communities.

STUDENT COUNCIL

Next year's Student Council has been elected by the students. The results are as follows:

Chair: Michelle Lamptey

Vice-chair: Ali Kazmi

Events: Andrea Cozza

Communications: Joe Stallibrass

Wellbeing & Equality: Bex Shantry

Environment & Activities: Louisa Le'Mon.

Congratulations to all and many thanks to all candidates who stood in the election.

The students have already had a significant impact by proposing the new School Values:

- Curiosity
- Ambition
- Compassion
- Tenacity
- Integrity

EXTENDED PROJECTS

The Extended Project Qualification has allowed Year 13 students the opportunity to explore an area of interest outside of the school syllabus, as well as outside their own comfort zones. Some students put their construction and design skills to the test, building drones, designing Eco Friendly houses and Nintendo themed desks, while others waxed lyrical about their research into the relationship between Mathematics and Music, the possibility of life on Mars and the importance of women in STEM subjects. Through the creation of a program that can randomly generate musical sequences, the investigation of the areas of Mandelbrot type sets and the capability of Quantum Computers, students have shown their ability to research and complete a significant piece of academic work independently. Projects were of a very high standard and students should be very proud of their accomplishments. Well done!

LEAVERS' PROM

Monday 4 July marked the first ever Leavers' Prom at KCLMS. Our first cohort of year 13 students dazzled in their finery as they came together to celebrate their time at the school at the Strand Campus of King's College London. The students posed for photos and danced into the night – a great night all round!

ECONOMICS TRIPS

Economists from year 12 have been brushing up on their skills in preparation for next year with Dr King from the Competition & Markets Authority. They found out about the real life applications of what they have been learning on their course, particularly the implications of 'Brexit' on the economy and the CMA itself – very topical! A trip to Citigroup allowed them to find out about what companies are looking for in employees, and about how and why vacancies and unemployment can coexist.

ART AND POLITICS

Year 12 enjoyed a day of culture out and about in London on the 5 July. Students toured the Houses of Parliament, and tried their hand at petitioning the government in a workshop on the role of Pressure Groups. The next stop was at the Tate Modern, where students had the chance to explore Modern Art, and try their hand at a 'Stream of Consciousness' writing exercise.

YEAR 12 TAKE ON UCAS

Plans for the future have begun for the students of Year 12, starting with university visits to Oxford, Imperial, Warwick and King's to get a feel for what is to come. They have drafted their UCAS Personal Statements as well as their online applications, and internships and placements are being lined up. Students are doing a variety of tasks over the summer, including work experience, research placements and summer schools.



Above: the pioneering cohort of Kings' Maths School Students!

SUMMER SCHOOL

This term 90 students from 30 schools visited KCLMS for this year's Summer School. The theme was "the algebra-geometry link" and students explored the mathematics of circles and parabolas as well as finding intersection points between various shapes. They were also introduced to some further maths topics including matrices and complex numbers.

A diverse array of visiting speakers encouraged students to see the real life applications of mathematics in careers. The students heard from a structural engineer, a Chief Investment Officer, an Actuary, a Biostatistician, a biochemist and a PhD Student, as well as representatives from Microsoft and Google.

Many thanks to the year 13 volunteer classroom assistants, Jack Darrant, Finnbar Keating, Kirsty Land, Chris McGarry and Joseph Murtagh for all of their help and their invaluable mathematical knowledge and support!

STATISTICS PROJECTS

In the last week of term, Year 12 students have completed projects looking at the statistics of things which occur at a constant average rate, for example, radioactive decay.

They chose to either perform experiments, investigate theoretical properties, or program a simulation, and then they all delivered a presentation to their peers reporting on what they had done. The projects were both interesting and accomplished.

ACADEMIC AWARDS

Congratulations to those who were awarded academic prizes, shown below. The Epistemic award celebrates the correct application of knowledge, and the Philomathean award recognises a dedication to learning and the pursuit of knowledge.

		EPISTEMIC	PHILOMATHEAN
MATHS	Year 13	Samuel Bird	Tam-Lin Moonstone
		Shaams Dally	Varun Chaubey
	Year 12	Cameron Croucher	Sebastian Monnet
		Phoebe Linane	Henry Sinclair-Banks
PHYSICS	Year 13	Christopher McGarry	Huiling Zheng
	Year 12	Benjamin Lane	Yuan Chen
COMPUTING	Year 13	Kirsty Land	Aleksander Grzesiak
	Year 12	Alexander Morson	Thomas Wilkinson
ECONOMICS	Year 12	Aengus Lynch	Harsimrat Singh
ENGINEERING	Year 12	Hannah Gleed	Sebastian Towers
EPQ	Year 13	Kafayat Hazzan	Nathalie Moore

FRIENDS OF KCLMS

The Friends of KCLMS is a newly registered charity (1167583) with the objective of advancing the education of the school's students, by funding programs and equipment which are not normally provided, and by developing relationships between the staff, parents and alumni. To date, the Friends have raised funds at the Parents and Carers event, and sponsored a Celebration of the King's Maths School Pioneers on 11 July for the parents and carers of the graduating class.

If you are interested in contributing to the Friends, or if you have an idea for the school which you would like the Friends to sponsor, please contact Page Starr at page@pagestarr.net

INTERNATIONAL DAY OF PEACE

On Wednesday 21 September we will be celebrating International Day of Peace, an international evening celebrating the diversity of our King's Maths community with food and dancing. Parents and Carers are welcome to attend, with more detail to come closer to the time.

PARENTS AND CARERS EVENT

This term marked the first Parent and Carers social event at KCLMS. Parents and Carers came for drinks and nibbles with staff over the course of a very pleasant evening. The Raffle raising money for the Friends of KCLMS Charity raised over £200, with a £25 voucher kindly donated by Wahaca as first prize. It was lovely to see so many familiar faces, and to thank the Parents and Carers of our students for their continued support.

MATHS CHALLENGE

Find all values of n for which $n^2 + 20n + 11$ is a perfect square.

WELL DONE TO EVERYONE FOR THEIR EXAM RESULTS!