

**KING'S
MATHS
SCHOOL**

WELCOME TO
KING'S MATHS
SCHOOL

2025



A specialist state-funded school for students aged 16-19 with a particular aptitude and enthusiasm for mathematics. Located in the heart of London, and run in partnership with King's College London.

KING'S
College
LONDON

DO YOU LIKE MATHEMATICS? ARE YOU GOOD AT IT?



If you answered yes, and yes again, then King's Maths School is for you.

It is a place where mathematics is brought to life, and a place that will provide you with the knowledge, skills and understanding you will need to make successful applications to the best universities in the country. Our curriculum offers challenge, creativity and excitement.

You will meet ideas that will astound you, and that will inspire you to think independently and rigorously about all of your learning.

Here you will have the unique opportunity to learn not only in the classroom under the guidance of skilled, dedicated and well-qualified teachers, but also with and from academic experts at King's College London. Their support has helped King's Maths School to consistently top the league tables for A level results.

We are incredibly excited to be expanding both our physical building and our range of subjects in 2025. We look forward to welcoming 50% more students to our new and improved facilities.

Our students come from many different backgrounds and have a wide range of interests. We celebrate that diversity whilst enjoying the common interest we share in the mathematical sciences. I hope you enjoy reading about our wonderful school in this prospectus.

Timothy Bateup, Head Teacher

a place where mathematics is brought to life

97.5% A*/A grades

Awarded Sixth Form of the Decade!

“ KING’S MATHS SCHOOL IS A PLACE WHERE I CAN FREELY SHOW MY PASSION FOR MATHEMATICS WITHOUT JUDGEMENT. ”

SIAN



SHRIMAT

“ THE LEARNING ATMOSPHERE IS VERY **MOTIVATING** AND MAKES YOU THINK FROM DIFFERENT PERSPECTIVES. ”

“ KING’S MATHS SCHOOL CREATES AN ENVIRONMENT WHERE I WANT TO PURSUE MY ASPIRATIONS. ”

COLLIN



BRINGING MATHS TO LIFE

King’s Maths School is for highly motivated students aged 16-19 with a particular aptitude and enthusiasm for mathematics. We provide opportunities for the brightest and the best young mathematicians in London.

We provide an education that is both engaging and challenging. One that inspires curiosity and equips students with a coherent understanding of both mathematics and the disciplines in which it is most commonly applied.

We empower students by developing their thinking, problem solving and communication skills, enabling them to make informed decisions about their futures and realise their ambitions.

We engender a supportive environment for every student through individual and regular feedback and by providing assistance wherever it is needed.

We believe that our students’ wellbeing is key to their academic and wider success. Excellent pastoral care, guidance and support are integral to our school’s culture.

Our lessons take students beyond the content required for examinations. In doing so we not only help them achieve excellence in their examinations, we also inspire and prepare them for success at the best universities and institutions.

PASSIONATE TEACHERS

Supportive environment

Motivated students

- Key degrees:
- Mathematics
 - Physics
 - Engineering
 - Computer Science
 - Economics

“ I WANT TO STUDY
PHYSICS

AT UNIVERSITY AS IT
EXPLAINS HOW EVERYTHING
AROUND US WORKS! ”



“ I'D LIKE TO BE DOING
SOMETHING IN

FINANCE, BANKING
OR ENGINEERING. ”

ZOE

“ MATHS IS A FOUNDATION,
THE THINGS WE ARE TAUGHT
HERE WILL BETTER EQUIP US
FOR DEGREES IN COMPUTING,
ENGINEERING AND PHYSICS. ”



OPENING DOORS

Mathematical ability is hugely valued in today's world. The ability to think abstractly and generalise concepts makes mathematicians key individuals in today's world, and opens the door to a broad range of university and career opportunities.

RESULTS

We are one of the highest-achieving schools in the UK.

In 2024, 97.5% were A grades or better and an amazing 77% were A* grades - top of the league tables and our best ever set of results. The Department for Education's performance tables list our results as the best A Level results of any school in the country, state or independent. Students not only attained well, but better here than they would elsewhere: on average, every student attained three-quarters of a grade higher in each subject than did students with comparable GCSE results across the country.

FURTHER EDUCATION

Through our unique academic environment, we prepare students for degrees containing a high level of mathematics at the very best universities. In 2024, an incredible 38% of our leavers secured places at Oxford and Cambridge with the vast majority of other applicants going on to highly competitive universities such as Warwick, Durham, Bath and UCL.

Key degrees that our students choose to study at university include:

- Mathematics
- Physics
- Engineering
- Computer Science
- Economics

CAREERS

There is a perception that people who are good at maths go on to become either accountants, teachers, or academics. The reality is very different.

In the modern world, having a well-trained mathematical mind leads to options in a hugely diverse range of industries. Some examples include:

- Aerospace engineering
- Artificial Intelligence
- Bioscience
- Business & Consultancy
- Data Science
- Engineering Design
- Financial modeling

We encourage every King's Maths School student to do some form of work placement or experience during their two years at the school, usually completed in the summer between their first and second years with us.

You can learn more about how maths is a door-opening subject at www.mathscareers.org.uk

OUR CORE CURRICULUM

Our curriculum is designed to prepare students for degrees in mathematics, physics, engineering, computer science and economics. All students take A-levels in Mathematics and Further Mathematics. In addition, they study Physics and another option in Year 12, choosing one of them to take on into Y13 to A Level. Option subjects are likely to include: Computer Science, Economics and Philosophy.

MATHEMATICS AND FURTHER MATHEMATICS

We teach mathematics in a way that develops mathematical thinking and an understanding of the connections within the subject. Students learn to do much more than answer standard problems using standard techniques. They begin to see both what pure mathematics is, and how it can be applied in complex situations where complete solutions may not be possible.

Thus, while the material covered is essentially that in A Level, the style of study is different from that in most schools.

We apply a much greater mathematical rigour, and require that statements are proved and methods justified. We take an intellectual approach, putting ideas in mathematical and historical context. We study real applications informed by the modern use of mathematics.

Mathematics and Further Mathematics are taught as one single subject, but one that contains a number of subdivisions.

In Core Mathematics we study intriguing questions: how can you solve the equation $x^2 = -4$? Which is larger, $\sqrt{7^n}$ or π^{n^7} ?

In Mechanics we examine motion and change: why do you fall backwards when

the tube carriage lurches forward? How do you kick a football over the goalkeeper and into the net?

In Statistics we learn how to make justifiable inferences despite the ineradicable presence of uncertainty. How likely is it that 721139 is a prime number (and why might the CIA want to know?). How can you determine if a coin is biased, and how sure can you be?

Throughout all these lessons, your teachers will encourage you to put forward your own ideas, and will help you to build them into powerful and general methods.

What are complex numbers, and how do they fit into the number system that we are already familiar with?

PHYSICS

Our physics teaching is unique in its continuous use of mathematics to develop ideas, and to make predictions about the world which otherwise can only be made by observation. Since all students at the school are studying mathematics to a high level, our physics teachers are able to use powerful techniques such as calculus to establish and interrogate ideas.

Physics is both an experimental and a theoretical subject, and our approach

is to blend the two together. Through experiments, demonstrations and open-ended discussions students develop many important skills, including analysis, evaluation, problem solving, collaboration and the effective use of technology to aid scientific enquiry. The school makes use of two state-of-the-art laboratories and organises talks, trips and visits to bring the curriculum to life.

How can we use maths to determine the half-life of radioactive substances?

COMPUTER SCIENCE

Computer science has been fundamental to many of the exciting scientific and technological advances of the 21st century; from modern conveniences such as contactless payments, to DNA sequencing, or number-crunching data generated by the Large Hadron Collider.

In computer science lessons, we focus on developing the ability to think computationally, that is, how to break down a problem into a logical series of steps, which can then be written as a program (we use Python) and executed by a computer.

What is the RSA cryptosystem, and why is it so fundamental to modern life?

ECONOMICS

The state of the nation's economy is a particularly heated topic of debate. Some say that recovery can only be achieved by increasing public spending to stimulate the economy, while others believe in 'belt-tightening austerity'. But which strategy is more credible, and why?

Economics tackles key questions such as these. In macroeconomics we concern ourselves with understanding the large-scale economic factors effecting countries across the globe, including interest rates and productivity. In microeconomics, we look at the actions and decisions of individuals and groups including questioning how prices are set, and why.

How do producers know how much to produce? Why are some markets inefficient, and what does the Government do to intervene?

PHILOSOPHY

Philosophy is the study of fundamental questions about people and the universe. It requires deep and critical thought about assumptions that we often take for granted and helps to sharpen our understanding of many fields of study. Learning about philosophy will develop your instincts for logical argument and analysis.

At A-level, the philosophy of mind explores the nature of thought and experience and aims to define what we mean by a mind. It wonderfully exemplifies the breadth of philosophy, combining reflection on our experiences as conscious and rational beings with analysis of modern research into how the brain works. Another topic is Ethics which aims to set out standards of right and wrong, and questions how these standards are justified.

What obligations do we have towards other people? What constitutes a good life?

OUR EXTENDED CURRICULUM

As well as the core subjects, we also offer an extended curriculum of disciplines with the aim of developing a broader set of skills.

THE KING'S CERTIFICATE

Central to our programme of Academic Literacy is the King's Certificate. On this programme, every student completes a group research project guided either by an academic from King's College London or an industry professional from companies working in mathematical fields. This gives all our students a taste of real research, and the opportunity to develop a broad array of skills that will benefit them in further study and their career.

As an example, a group of students worked to design and implement a Scratch program for analysis and ranking in the Raspberry Pi foundation's 'Coolest Project' showcase. Other students worked alongside a Professor of Biomedical Engineering from King's College London in the production of a universal robotic system to perform minimally-invasive heart surgery. Another group, collaborating with leading engineering firm WSP, came up with a sustainable redesign of our school's buildings.

In their second year, students can opt to take their research further and complete an **Extended Project Qualification (EPQ)**, which is equivalent to half an A Level in scope and in UCAS weighting.

CURRICULUM X

Whilst every lesson at King's Maths School involves challenge we also provide a tailor-made extension curriculum. Students in their second year can choose from a range of courses in maths, physics, computer science and economics that take students far beyond the A level curriculum and help prepare them for undergraduate study.

Curriculum X courses, many of which are taught by university lecturers, provide King's Maths School students with a unique opportunity to truly deepen and extend their study of the mathematical sciences.

TRIPS AND VISITS

The school year is filled with exciting trips and visits. Thanks to our King's Kulture programme, students can enjoy numerous cultural experiences ranging from hearing classical and world music, to seeing dance, sports, theatre and much more at some of London's most renowned venues.

CLUBS AND SOCIETIES

There are numerous clubs and societies to get involved with. Robotics, engineering, philosophy, board games and music are some of the most popular.

"My King's Certificate project greatly helped me understand what a research project entails. Throughout the project I had great fun working with my team to make executive style decisions and learn more about data presentation."



Semanur

COMPETITIONS

All students are prepared for entry to the Senior Mathematics Challenge and the Physics AS and A2 Challenges. There is also optional support to enter the Mathematics, Physics and Informatics Olympiads, as well as team competitions.

PROBLEM SOLVING

Students have a dedicated lesson each week to develop their skills in problem solving. The problems set are unusual and designed to encourage creativity as well as skill in communicating mathematical ideas. This programme is intellectually stimulating and provides vital preparation for university learning.

SPORT AND EXERCISE

Our programme of sport and exercise is designed to encourage all students to take up a form of exercise that they enjoy and that will help them to lead healthy lives.

Each Friday afternoon students choose between football, gym, dance and Zumba, basketball, badminton, circuits, netball, and tennis. Professional coaches from London South Bank University manage our sports programme from their facilities and also from a local park.

"Curriculum X has introduced me to a new and exciting way of learning. We explore ideas from areas of mathematics that are new to me and apply them to interesting situations."

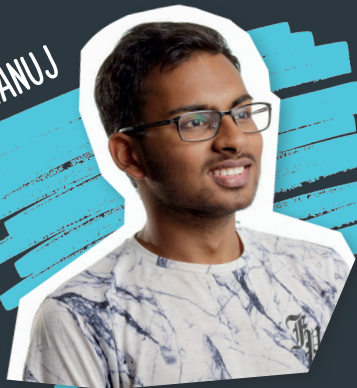


Reemon

“ THE SCHOOL HELPS TO GIVE ME THE BEST CHANCE TO BE ACCEPTED BY TOP TIER UNIVERSITIES. ”



MANUJ



“ THE PREP FOR MY UCAS APPLICATION WAS FANTASTIC AND THE ONE-TO-ONE SESSIONS WERE AMAZING. ”

“ MY TEACHER AND I DISCUSSED MY UCAS APPLICATION AT GREAT LENGTH. ”



PREPARING FOR UNIVERSITY

We pride ourselves on our ability to prepare students for further education. Our staff have significant experience and have been successful in guiding high-attaining students through the UCAS process. We send a greater proportion of students to Oxbridge and to Russell Group universities than any other state school in the country.

APPLICATION TIMETABLE

With the help of the experts at King's College London we help students to apply for the right courses and universities for them.

Summer term (year 12)

Throughout the year, we put on a sequence of career talks and visits designed to help students figure out what course they want to apply for. Speakers from the industry and academia come to the school and discuss their work and career paths.

After the end of year exams, we encourage students to attend open days and visit several universities as part of our independent futures programme. We provide detailed guidance and support through the application process, in particular the personal statement.

Autumn term (year 13)

Students finalise their decisions with our advice, and submit their applications.

Throughout this process we have regular sessions during which students are prepared for entrance examinations and interviews, including for admission to Oxford and Cambridge.

Alongside applications to university, we also support students in applying to degree apprenticeships through our close partnership with ASK Apprenticeships UK.

“ The school has been massively helpful, constantly encouraging us to take part in additional extension activities and reading outside of the curriculum that make the writing of personal statement, probably the most stressful part of the process, much easier. ”



Abu

OUR LOCATION AND SITE

Situated on Kennington Road right by the Imperial War Museum, we are within walking distance of King's College London's Waterloo Campus. Central London is a short tube or bus journey away.

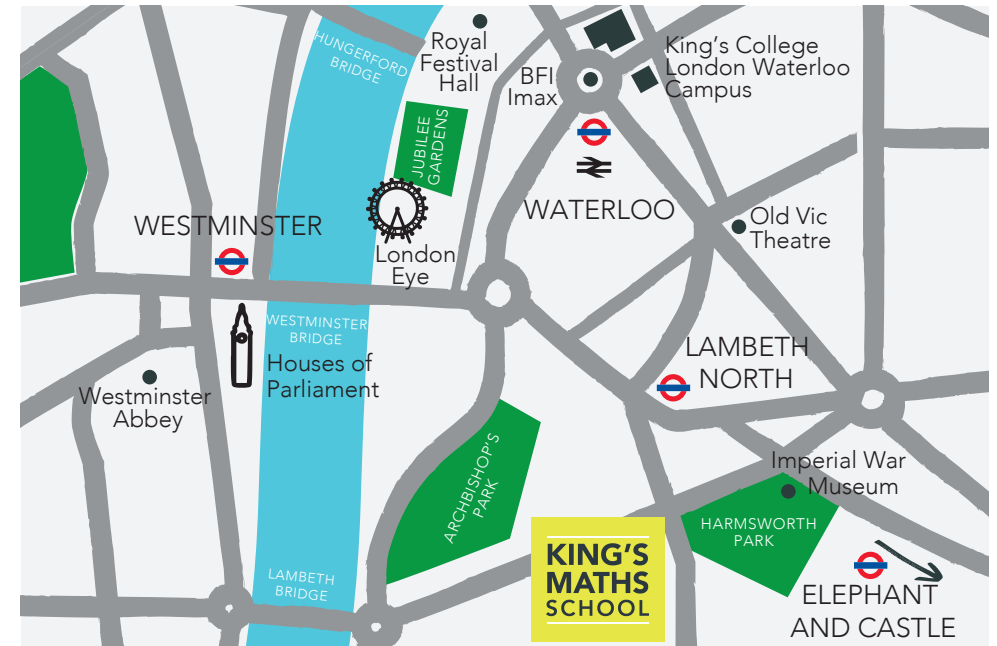
Our buildings provide a connected, spacious learning environment which encourages communication and creativity.

Every classroom and student study space around the school features plenty of whiteboard space. Students use these whiteboards to solve problems as well as to share and discuss ideas. They help to create an atmosphere buzzing with engaged learning, independent thinking and wide-ranging academic interest.



LAMIS

“THE CLASSROOMS ARE AMAZING! THEY HAVE THESE SMALL PODS AS WELL WITH WHITEBOARDS INSIDE FOR US TO DISCUSS STUFF.”



SCHOOL LIFE

We believe that our students' well-being is key to their academic attainment. We aim to provide an enjoyable, rounded educational experience and we pride ourselves on our support for students in their journey from young person to young adult.

THE SCHOOL DAY

King's Maths School starts at 9.10 AM. Our students travel to us from all over London, and many have journey times of over an hour. They are also teenagers and recent research has shown that the teenage mind does not function best first thing in the morning!

Students have six 50-minute lessons each day and the school day ends at 4.15 PM. There is the option of staying after school to discuss problems with peers, engage in independent study, or speak to teachers.

Not every lesson operates in the traditional sense: some are given over to problem solving in small groups, to independent research and to talks from visiting lecturers.

CARE, GUIDANCE AND SUPPORT

Excellent care, guidance and support is integral to the success of our students. Students are divided into houses and form groups, and each student has a tutor who will meet with them fortnightly on an individual basis to act as a mentor and guide.

Through these regular meetings, tutors get to know their tutees very well indeed and are able to support them through the many stages of their time at King's Maths School, from the induction process to the final leaving celebrations.



"The teachers have a huge amount of knowledge and are great at accommodating students' needs. They are passionate and want to make difference."

Manuj

"The lessons are dense. 50 minutes each and packed with content, each lesson feels meaningful and important to the overall journey."

Eito



SAMPLE TIMETABLE

	Mon	Tue	Wed	Thu	Fri
Period 1	Maths Core	Personal Development	Physics	Maths Core	Physics
Period 2	Maths Core	Computing/ Philosophy/ Economics	King's Certificate	Physics	Physics
Period 3	Problem Solving	Independent Study	Maths Core	Study Skills	Maths Core
Period 4	Independent Study	Physics	Maths Mechanics	Computing/ Philosophy/ Economics	Maths Statistics
Period 5	Maths Mechanics	Computing/ Philosophy/ Economics	Extension/ Projects	Computing/ Philosophy/ Economics	Sport and Exercise
Period 6	Computing/ Philosophy/ Economics	Maths Statistics	Extension/ Projects	Independent Study	Sport and Exercise



"The teaching doesn't just happen in the classroom. You learn from your peers as well as the teachers. There are so many facilities like whiteboards all around."

Radyah

ADMISSIONS

We provide an opportunity for the brightest and best young mathematicians to stretch themselves and prepare to study subjects with a high degree of mathematical content at university. We are a highly selective institution that seeks to engage students who have an interest and aptitude in mathematics but who may not otherwise have access to an outstanding mathematical education. Diversity is at the heart of our school's ethos and the application process reflects this aim.

ADMISSIONS TEST

All applicants are invited to sit a mathematical admissions test. The test is based on KS3 mathematics, but will require creative thinking and for techniques to be used flexibly.

INTERVIEWS

The highest scoring applicants are invited back for an interview. The aim is to find out more about you, what you enjoy about mathematics and what you are looking to learn.

OPEN EVENTS

King's Maths School is hosting several online Open Evenings where you can find out more about the school, and also some face-to-face Taster Days where you can spend a day in lessons testing out whether our style of education is for you.

HOW DO I APPLY?

Applications to King's Maths School for next September are now open. Application forms are online.

FINANCIAL SUPPORT

KCLMS is a specialist state-funded school and there are no fees to attend. We believe that financial circumstances should not be a barrier to studying at King's Maths School. We provide a range of financial support, including travel bursaries, for those in need. Please see our website for further details.

FIND OUT MORE

You can sign up for open events, read example admissions test questions and apply online, all through the "Admissions" section of our website:
www.kingsmathsschool.com



"When you are in a place with loads of top mathematicians, it's a challenge and it pushes you. It makes you more passionate about maths."

Michelle

FIND OUR MORE

To learn more about King's College London Mathematics School,
go to www.kingsmathsschool.com

OR CHECK US OUT ON

Twitter: @kingsmathschool

Instagram: kingsmathschool

LinkedIn: King's College London Mathematics School

TRY OUR WEEKLY MATHS CHALLENGE

Twitter: @sevendaymaths

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