



SURREY
MATHS SCHOOL

A specialist Maths School
for 16-19 year olds



Outreach Brochure



**When we open Mathematics up as a
subject that is about learning,
exploration and growth, every student
can begin to see themselves as a
Mathematician.**

Jo Boaler



About Surrey Maths School

Surrey Maths School is a dynamic and vibrant community, dedicated to fostering inclusivity and diversity, ensuring every individual can thrive. It is a home for inquisitive mathematicians, driven by a love for learning and an affinity for adventure.

Our Mission:

We will inspire exceptional young mathematicians of all backgrounds into high-potential STEM pathways by providing an innovative education that supports exploration beyond A Levels into real world applications.

Our Vision:

Through their engagement in the mathematical sciences, our students will have a tangible impact on society, cultivating a brighter future for all.



INTEGRITY

We are honest, we are transparent, and we treat each other fairly.



ASPIRATION

We strive for excellence, we work hard, and we challenge ourselves to be the best we can be.



COLLABORATION

We work together, we appreciate the value of learning from each other, and we support one another.



COMPASSION

We act with kindness, and we treat all members of our community with respect.



INNOVATION

We believe in doing things differently, and we inspire through our creative and unique approach to teaching and learning.

Outreach at Surrey Maths School

Outreach and community engagement is at the heart of our mission to widen not only participation in high-level mathematical study but also a sense of belonging in STEM for all learners.

Working in collaboration with the University of Surrey and local schools, our programmes aim

- To improve the diversity of students who go on to study the mathematical sciences at a higher level, by:
 - improving the proportion of girls taking part in STEM subjects post-16
 - improving social mobility via identifying able mathematicians from disadvantaged backgrounds
- To inspire students to engage with the mathematical sciences, providing enrichment and support to throughout each stage of their educational journey
- To facilitate discussions and CPD aimed at improving the quality of teaching and learning in mathematical sciences by:
 - working to improve outcomes in schools with weak progression and high proportions of disadvantaged students in the Mathematics
 - working with schools with low conversion rates from GCSE to A level Mathematics
 - delivering CPD for teachers of the mathematical sciences to extend and inspire teaching at A level





SuMS Spotlight offers one-off, on-site masterclasses for KS2 students.

Through engaging, hands-on activities and thought-provoking challenges, these sessions encourage young learners to explore Mathematics in new and exciting ways, helping to build confidence, inspire curiosity, and foster a lifelong enjoyment of STEM.



SuMS Sparks is a five-week programme for Year 8 students.

Designed to ignite interest, students explore Mathematics, Economics, Computer Science, Physics and Chemistry in practical sessions, introducing them to the breadth and excitement of the mathematical sciences and their mathematical potential.



SuMS Sessions is a series of sessions delivered throughout the academic year.

Through a blend of online and in-person learning, students explore Mathematics beyond the curriculum, stretching their understanding, developing mathematical thinking, and discovering new ideas. As part of the programme, students gain priority access to SuMS STEM Showcase and SuMS Speaks, providing the opportunity to experience Surrey Maths School's unique approach to teaching the mathematical sciences as well as the inspirational opportunities we have to offer.



SuMS Step Up is designed to support KS5 students preparing for entrance examinations and looking to develop their mathematical problem-solving skills.

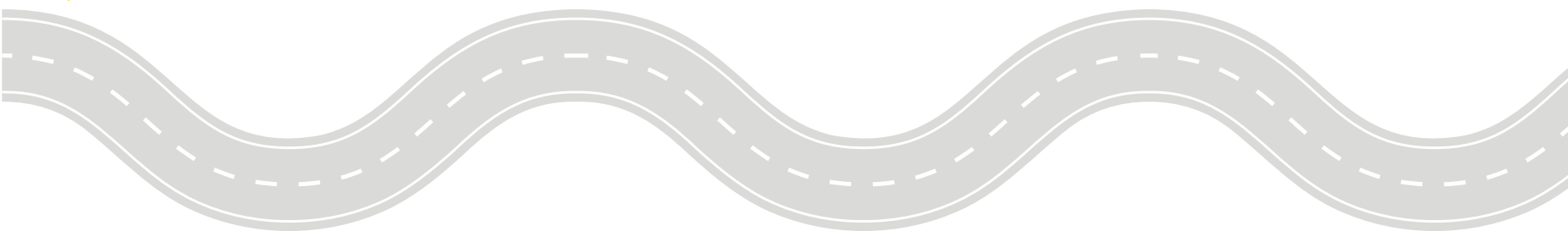
Through challenging activities and expert guidance, students tackle rich mathematical problems beyond the A Level curriculum, developing the confidence, resilience and analytical thinking needed to succeed in university entrance examinations and beyond.

Primary Outreach

Research suggests that the transition from KS2 to KS3 is often a period when pupils experience a significant dip in their mathematical engagement and subsequently their confidence in their ability.

To combat this, Surrey Maths School is invested in working with primary schools and local partners to deliver activities to engage and enthuse students at this key transition of their mathematical journey.

Alongside SuMS Spotlight, we run a six week Year 6 programme, Shape The Future and deliver our Where Is The Moon? session in partnership with The Royal Institution.

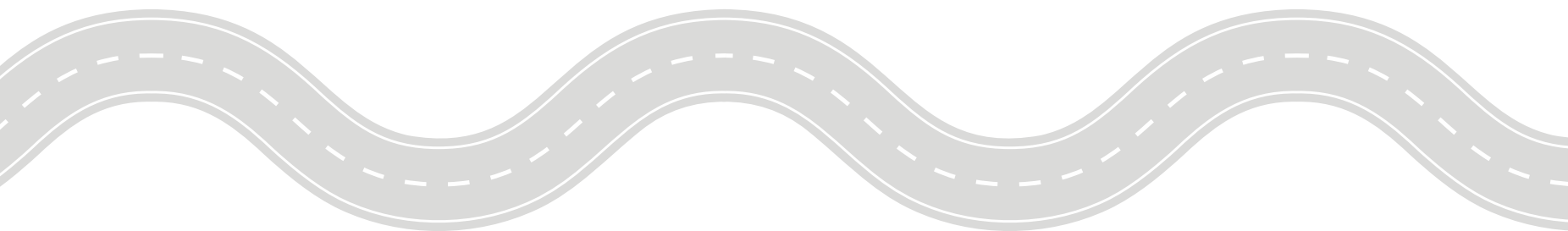




Our students not only developed their mathematical thinking and problem-solving skills, but were also encouraged to work collaboratively, communicate their ideas and listen to the perspectives of others.

The children have particularly enjoyed the challenge of applying their maths to real-life problems, giving them a greater understanding of how mathematics can be used beyond the classroom.

Mrs Schollar - Guildford Grove School



Secondary Outreach - KS3

Enhancing KS3 mathematical engagement requires a continued focus on collaborative, hands-on learning that connects new concepts to prior knowledge. With this in mind, we've developed a number of opportunities for Year 7 to Year 9 students.

Alongside SuMS Sparks, Cracking The Code is our Year 7 girls programme celebrating female contributions in cryptography through activities which challenge, extend and develop a sense of belonging in Mathematics.

Surrey Maths School is also proud to be a registered host school for the UK Maths Trust's Team Maths Challenge.





“ The sessions should be longer! This was fun but challenging and the mathematicians were inspiring.

Christs College Student 2026



Secondary Outreach - KS4

Our Year 10 activities are designed to look beyond the classroom and support students in actively pursuing STEM subjects post-16 and beyond. SuMS Sessions and our STEM Showcase provide students with the opportunity to delve into more subject specific topics and begin to get a feel for how the topics they're studying now progress.

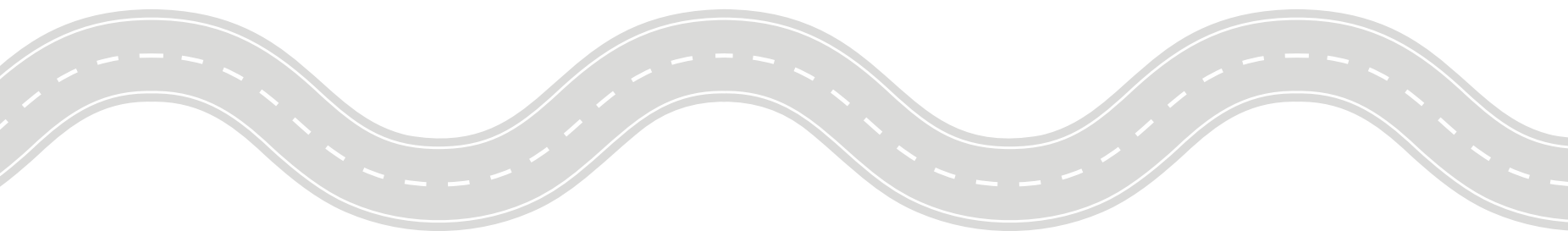
Our annual Women in STEM Summer School provides female students a space to push their thinking, interactive with incredible role models and build confidence in subjects where they may feel under-represented. Across two days, we hope to not only provide inspirational moments but also to address misconceptions about pursuing the mathematical sciences.





The Women in STEM Summer School was well organised, informative, and overall just enjoyable. I got to learn about opportunities I hadn't considered for my future, and I consider my horizons widened.

Alex L - St Andrew's Catholic School

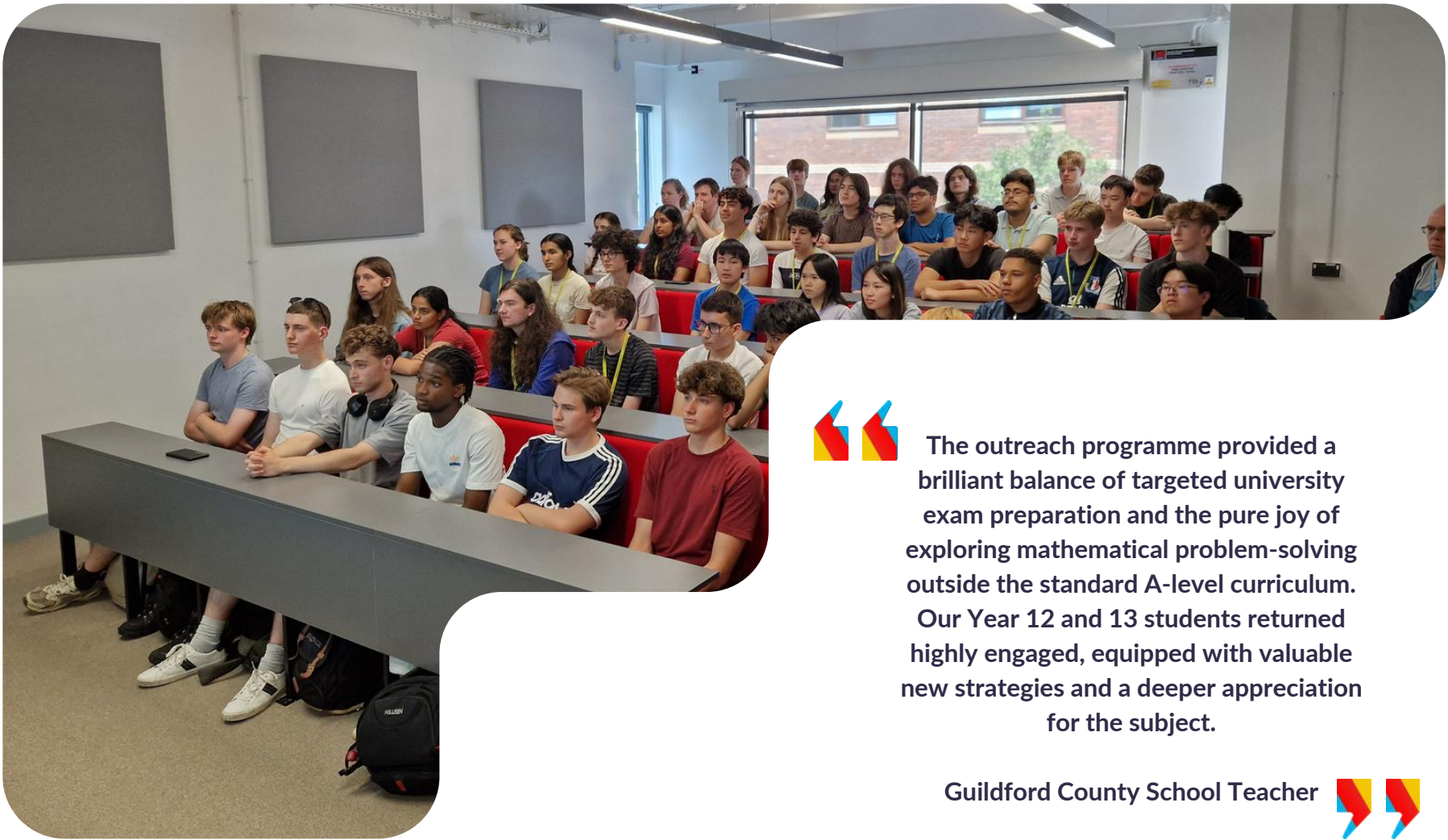


Secondary Outreach - KS5

SuMS Step Up supports ambitious KS5 students looking to explore challenging problems beyond the A Level curriculum and prepare for university admissions tests, including STEP, TMUA and MAT.

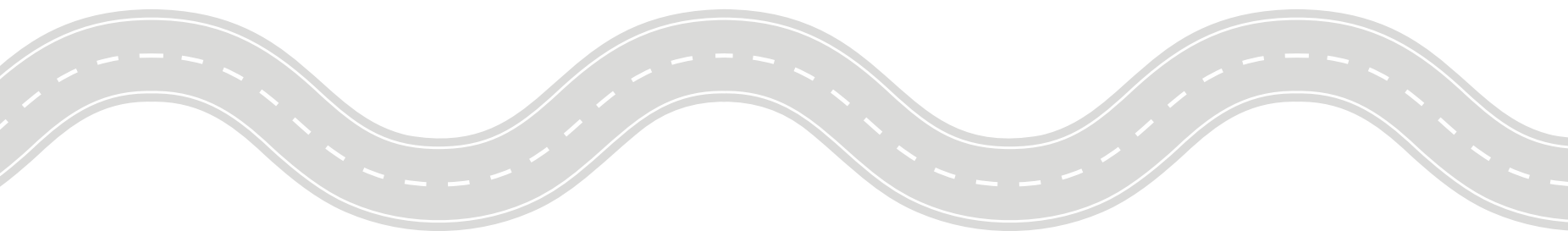
Through a series of rich mathematical problems, SuMS teachers guide students to develop the mathematical thinking, resilience and confidence needed to tackle unfamiliar questions. Students strengthen their reasoning skills whilst gaining valuable experience of the style and depth of questions encountered in university admissions assessments and future mathematical study.





The outreach programme provided a brilliant balance of targeted university exam preparation and the pure joy of exploring mathematical problem-solving outside the standard A-level curriculum. Our Year 12 and 13 students returned highly engaged, equipped with valuable new strategies and a deeper appreciation for the subject.

Guildford County School Teacher





SuMS Speaks is Surrey Maths School's annual keynote event, bringing exceptional voices from the world of STEM to our community.

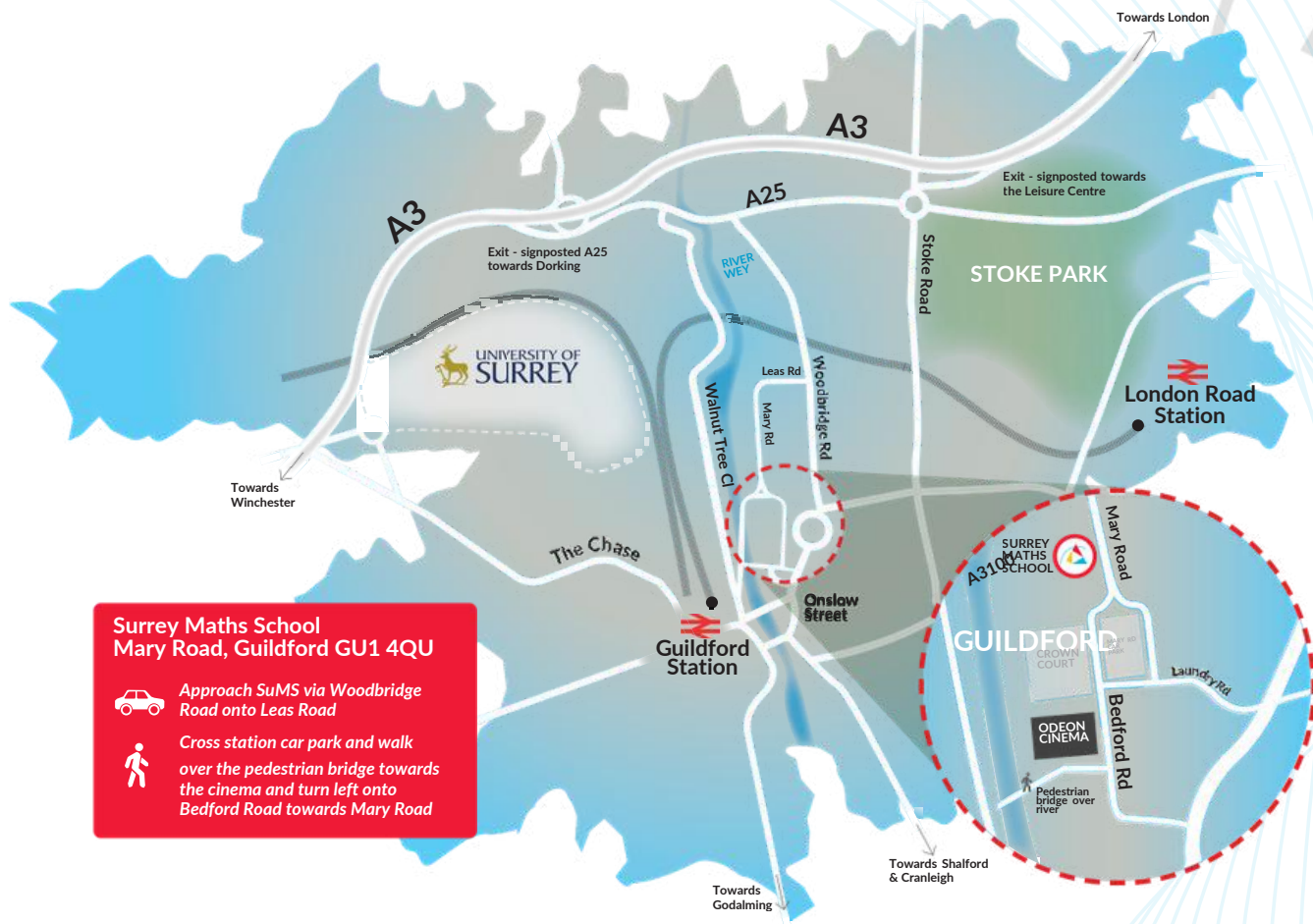
At Surrey Maths School, we're firm believers that being a great STEM learner isn't just about solving equations or understanding theories; curiosity and innovation are key. SuMS Speaks aims to connect tomorrow's scientists, engineers and mathematicians with people whose journeys have been shaped by a passion for discovery and who have continued to make impactful contributions in their fields.

More than a lecture, SuMS Speaks is a conversation. Our speakers share not only their achievements, but also the challenges, decisions and moments of curiosity that have defined their journeys. Through open discussion and audience questions, students gain insight into the realities of working at the forefront of STEM and the opportunities that lie beyond the classroom.

Talent flourishes when it is inspired. SuMS Speaks reflects our commitment to nurturing ambitious, inquisitive young people by connecting them with those who are pushing the boundaries of knowledge and innovation. Whether students leave with a new perspective, a fresh question or a bold ambition, we hope every SuMS Speaks event encourages us all to think bigger about the positive impact a passion for STEM has on the world.



Our Location





If you have any queries about outreach, please contact us at:

E: **outreach@surreymathsschool.co.uk**

T: **01483 983059**



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