Candidate Information Pack

TEACHER OF MATHS
(FULL TIME)

Preferably required either Summer or Autumn Term 2027



Our mission is to identify, nurture and develop world-class mathematical talent.

Welcome from the Head



Thank you for your interest in joining the 1729 Maths School. We are building something genuinely new in the landscape of British education — a school designed not around exams, but around ideas, curiosity and mathematical ambition. Our students will be exceptional young thinkers, hungry for challenge and eager to explore mathematics in ways usually reserved for undergraduates. They deserve teachers who share that excitement, who find joy in deep ideas, and who see the potential in guiding young minds through the beauty and powerof real mathematics.

Joining 1729 means taking on a role unlike anything else in the sector. You will help shape a pioneering curriculum, work closely with university mathematicians, coach problem-solvers and Olympians, and contribute to a close-knit intellectual community where teachers are learners as much as leaders. This is a chance to help build a school from the ground up — to create an environment that inspires, stretches and supports extraordinary students. If you are motivated by challenge, innovation and the opportunity to influence the next generation of mathematical thinkers, I would be delighted to hear from you.

Nick Hamshaw
Founding Head, 1729 Maths School

Job Description



As a teacher at the 1729 Maths School, you will play a central role in creating a world-class mathematical community for exceptional young thinkers. You will work with students aged 11–18, helping them build deep conceptual understanding, develop mathematical maturity and engage with ideas usually encountered only at university.

Key Responsibilities

1. Teaching and Learning

- Teach mathematics across Years 7–13, delivering conceptually rich lessons that build strong, coherent foundations and foster real understanding
- Support university-style sessions — seminars, explorations, problem discussions — guiding students as they learn to think and communicate like mathematicians
- Collaborate closely with visiting lecturers, PhD students and academic partners in the design and delivery of advanced mathematical experiences
- Contribute to the creation, refinement and evolution of the 1729 curriculum, helping shape the long-term intellectual character of the school

2. Co-Curricular Mathematics

- Lead and support co-curricular programmes such as maths circles, problem-solving clubs and Olympiad training
- Mentor students preparing for high-level competitions (UKMT, BMO, MEMO, IMO training pathways, STEP, MAT, TMUA)
- Help build a thriving community of mathematicians beyond the classroom — one that values curiosity, collaboration and intellectual courage

3. Pastoral and Academic Mentoring

- Serve as a mentor to students, supporting their growth as scholars and individuals
- Help students navigate the increasing academic independence of the pre-university model
- Work closely with pastoral staff to contribute to a warm, inclusive and supportive environment

4. Professional Development and Collaboration

- Participate actively in "Curriculum Studios" and other collaborative design groups with colleagues and academic advisors
- Engage in ongoing professional development in both pedagogy and higher-level mathematics
- Contribute to the school's wider intellectual life, including evening lectures, outreach events and partnerships

The position is subject to a 6 months probationary period.

Person Specification



Essential Qualities

- A deep love of mathematics and a desire to share it with young people
- Strong mathematical background — typically a degree in mathematics or a closely related field
- Demonstrated ability to develop conceptual understanding through outstanding teaching
- Strong problem-solving skills and the ability to engage with challenging mathematical questions
- Experience with enrichment mathematics, such as Olympiad mentoring, problem-solving groups, UKMT coaching, or advanced problem sessions
- Familiarity with university-level mathematics or mathematical research culture, through study, teaching, supervised research, or professional engagement
- Ability to foster intellectual curiosity and support high-potential learners
- Excellent communication skills, especially in explaining difficult ideas precisely and accessibly
- Willingness to work within a highly collaborative environment, including partnerships with universities
- Commitment to the ethos of 1729: curiosity, exploration, rigour and kindness
- Demonstrated ability to draw out and explore mathematical ideas by interacting with students
- Experience of working with mathematically high-attaining students

Desirable Qualities

- **A strong background in problem-solving–oriented computer science**, such as algorithms, complexity, logic, or mathematical aspects of programming
- Experience with teaching at KS3- KS5
- Designing lessons in which students are active participants in developing, exploring and interrogating mathematical ideas
- Interest in interdisciplinary connections (e.g., physics, philosophy of mathematics)
- Experience or interest in working with neurodiverse students
- Experience guiding students through STEP, MAT, TMUA or equivalent university entrance preparation, or the ability to acquire this quickly



About 1729

Located within the stunning Mill Hill School campus, the 1729 Maths School will offer an outstanding and rigorous maths-based education to pupils irrespective of family income, complemented by a broad curriculum and an extensive co-curricular offering that comes from being part of the Mill Hill Schools family.

1729 Maths School is currently working through the first admissions process, having received a large number of excellent applications.

Excellence at every step

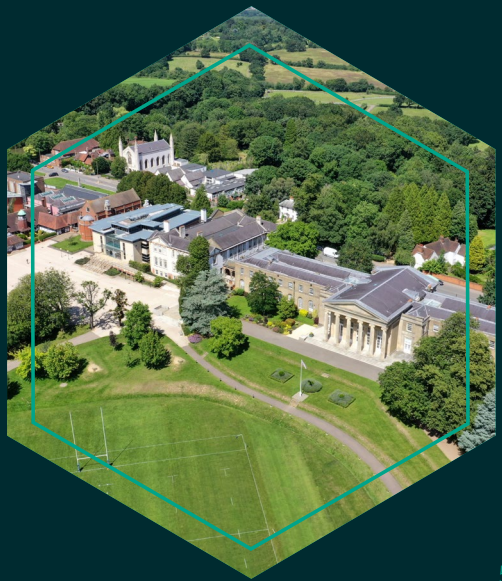
By beginning their journey at age 11 or 13 (our two points of entry) pupils will have the time and space to develop their mathematical talents, while also enjoying the freedoms that come with an independent school education. From outreach to pastoral care to teaching, excellence inspires all our activity.

Meritocracy at the heart of our ethos

The 1729 Maths School will have partially and fully-funded places available: family income will never be a barrier for pupils with the potential to thrive here. Our ability to deliver this comes from the unique way we're funded: we're a partnership between Mill Hill Schools and Purposeful Ventures, a not-forprofit organisation working towards a fairer society where all young people thrive. Through Purposeful Ventures, the 1729 Maths School has been initiated and is funded by Alex and Elena Gerko, major supporters of maths education and research in the UK.

A 'school within a school'

1729's 'school within a school' structure will give pupils dedicated space to nurture their maths talent with their like-minded peers, whilst also being fully embedded in the wider community of Mill Hill School and Belmont, Mill Hill Prep. 1729 pupils will join this community for the majority of their school day, including non-maths-related lessons, clubs, activities and meals.



Why join us

Why Choose the 1729 Maths School? The 1729 Maths School offers a rare professional opportunity: the chance to help build a pioneering institution for exceptional young mathematicians. We are creating an environment where deep thinking, curiosity and high expectations define daily life, and where teachers are central to shaping a new national model of mathematical education.

Based within the beautiful Mill Hill campus, 1729 combines the energy of a new venture with the security and support of an established educational group. Our staff community is small, highly collaborative and intellectually ambitious, allowing teachers to grow their practice, influence curriculum design and be part of a close-knit team.

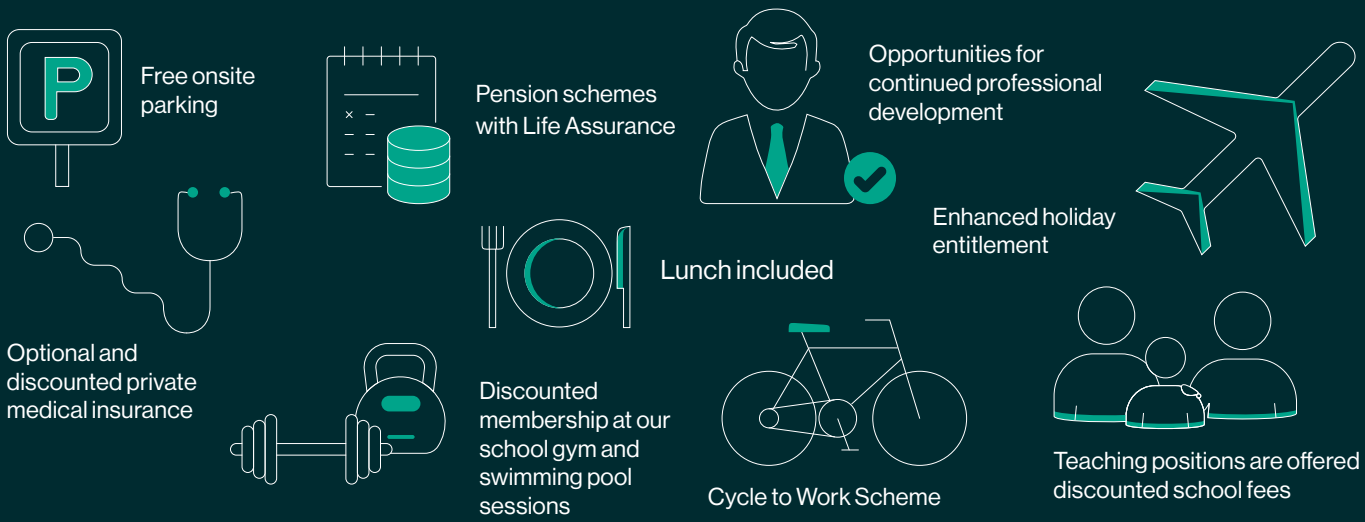
There are many reasons why colleagues will thrive at 1729, including:

- **A uniquely collaborative academic culture**, working alongside university mathematicians, researchers, PhD students and expert teachers.
- **Exceptional, intellectually hungry pupils**, selected for their potential, curiosity and love of challenge.
- **An unrivalled mathematical environment**, including Olympiad coaching, problem-solving circles, university-style seminars and advanced enrichment.
- **A genuine commitment to staff wellbeing**, with small class sizes, protected planning time and a focus on purposeful, high-quality work rather than volume.
- **A highly competitive salary and benefits package**, reflecting the specialist nature of the role and the ambition of the school.

1729 is an extraordinary place to teach — a school where talented mathematicians can do the most meaningful and exciting work of their careers.

Added benefits

We not only offer inspirational learning environments for pupils, but also great places to work for our staff. In addition to working in a beautiful setting we also provide a range of benefits:



Mill Hill School in numbers

A Level pupils achieved

55%

Grade A*-A in 2026

22%

Grade A*

84%

Grade A*-B



1807

The year Mill Hill was founded





120

acres of beautiful school grounds

GCSE pupils achieved

52%

Grade 9-8



80%

of university destinations are Russell Group (2025 and 2026)

26%

Grade 9

10

miles from Central London



200+

staff members

Meet The Team



Nick Hamshaw
Founding Head

Nick Hamshaw is an experienced maths educator and school leader. After studying Maths at the University of Oxford, he first taught at Aylesbury Grammar and was a boarding sub-tutor at Radley College. He was later Head of Maths at Oundle and Haberdashers' Boys' and was Academic Deputy Head at St Albans High School for Girls. Most recently, Nick served as Senior Deputy Head at Haberdashers' Boys' School. Nick has published textbooks, solution manuals and problem-solving guides for Cambridge University Press. He enjoys classical music, natural history and photography.



Vladlena Kazantseva
Curriculum Lead

Vladlena Kazantseva, an alumna of School No. 57, a specialist maths school in Moscow and holds Bachelor's and Master's degrees in Maths from Higher School of Economics (HSE), Moscow. During her career, she has led advanced maths groups and organised Olympiads and educational events. At Jeannine Manuel School and COMPOS Oxford, she drove educational innovation and empowered students through advanced mathematical instruction and curriculum development.



Davide Leonessi
Teacher of Maths

Davide is a mathematician and a passionate educator. He studied Mathematics and then Mathematics with Computer Science at Oxford, where he conducted research in the theory of infinite games. He later specialised in Logic at the City University of New York, where he also explored philosophical Logic. Alongside his academic work, Davide has shared his passion for Mathematics by coaching the Mathematical Olympiad team of his own former school in Arezzo (Italy), teaching pupils at Stanford University's summer Maths camp, and lecturing undergraduates at Hunter College in New York.



Priya Taylor
Head of Operations

Priya is an experienced strategic leader with over 20 years of experience transforming innovative ideas into successful business operations. Prior to joining the founding team at 1729, Priya was the Head of Commercial and Operations at RMS for Girls, where she was responsible for all day to day operational needs and led multi functional teams across projects, catering, housekeeping, and events. During her tenure at RMS, she also developed and delivered the enterprise marketing strategy, driving commercial revenue growth.



David Benson
Head, Mill Hill School

David Benson is a highly accomplished educational leader with a track record of transforming schools, having founded Kensington Aldridge Academy and led it to Ofsted 'Outstanding' status and top 10% A Level results nationally. Recognised as one of the UK's top ten educationalists by TES, he has a proven ability to drive academic excellence, student success, and institutional growth in both the state and private school systems. Now Head of Mill Hill, he is committed to shaping its future, bringing visionary leadership and a passion for educational excellence.



Dr Susannah Abbott
Head, Belmont Mill Hill Prep

Dr Susannah Abbott is a widely experienced educational leader and current Head of Belmont. She was Senior Deputy Head at Queen's College, Acting Head of Queen's College Prep, and taught for a decade at Harrow, becoming its first female Housemaster. With a Ph.D. in History and university-level teaching experience, she combines academic excellence with a commitment to student development. A former Premiership footballer and FA Cup finalist, she has coached England U16/U18 and represents independent schools on the FA Council.

How To Apply

Key Dates

Application Deadline: 9am on Wednesday 2 December 2026.

As 1729 Maths School is a partner of the Mill Hill Education Group, 1729 Maths School employees are employed by Mill Hill Education Group.

Please note that we are unable to accept applications unless they are made on our own application form. Due to the number of applications the School receives, please be aware that only shortlisted candidates will be contacted to be invited for an interview.

The Mill Hill Education Group reserves the right to interview candidates ahead of the closing date and applications will be considered as they are received.

The Mill Hill Education Group is committed to safeguarding the welfare of children. As part of our Recruitment Checks, the appointed candidate will be subject to a Social Media and Enhanced DBS Check.

The schools apply for an Enhanced Disclosure from the Disclosure and Barring Service (DBS) for all positions at the schools which amount to regulated activity. The role you are applying for meets the legal definition of regulated activity with children.

If you are successful in your application you will be required to complete a DBS Disclosure Application Form. Employment with the schools is conditional upon the schools being satisfied with the result of the Enhanced DBS Disclosure. Any criminal records information that is disclosed to the schools will be handled in accordance with any guidance and/or code of practice published by the DBS. It is an offence for person barred from working with children to apply for this post.

The Mill Hill Education Group is committed to Equal Opportunities and welcomes applications from all sections of the community.

Successful applicants will also be expected to keep up to date with annual safeguarding training, DfE guidance and School specific safeguarding information.

If this new opportunity sparks your enthusiasm and you wish to be part of our team, please click the button to complete your Application Form.

APPLY



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