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**HEAD OF MATHEMATICS  
(Full Time)**

## Information

Cranbrook School is a mixed state grammar school with 872 pupils aged 11-18 years, including around 240 boarders. For its first 400 years the school was known as Queen Elizabeth's Grammar School with strong roots in the small town of Cranbrook. Day pupils come from within 10 kilometres (6.2 miles) of the school, following a test to judge their suitability for an academic education. Boy and girl boarders are admitted from a wide area, having sat the same test. Although it is a selective school, Cranbrook admits a wider ability range than many other grammar schools. It provides a challenging curriculum for the academic high flyers whilst at the same time catering to the requirements of those of more relatively modest abilities. The value-added scores that are achieved each year bear testimony to the success of the provision.

Pupils join at the age of 11 or 13, and in Year 10 they start their two-year GCSE courses in nine or ten subjects. Most students then qualify for the Sixth Form, this being supplemented by a healthy intake into Year 12 from other schools. All Sixth Formers follow a two-year GCE course, leading to A level exams in Year 13.

For a state school the facilities are very impressive. Within the seventy acres of school grounds are found the six boarding houses, the Queen's Hall Theatre (used for assemblies, school productions, visiting theatre companies and concerts), a well-stocked library and lecture theatre. Sports facilities include a large sports hall, dance studio, gymnasium, weights room, heated outdoor swimming pool, squash courts and extensive playing fields and facilities for the boys' and girls' games - hockey, rugby, cricket, netball, tennis and athletics – as well as an astro-turf pitch. The school also possesses a purpose-built Performing Arts Centre which houses a drama studio and music practice rooms, and a Sixth Form Centre which was recently refurbished to very high standards and features a large and sound-proofed study area as well as informal seating and kitchen facilities. The school boasts an Observatory and Science Centre named after Dr Piers Sellers OBE, a former student and NASA astronaut.

As a school, Cranbrook is very keen to educate the whole person and to this end it runs a wide programme of extra-curricular activities, including the voluntary CCF (combined cadet force) and Duke of Edinburgh Award Scheme, as well as a broad range of sports, music and drama, both during the week and at the weekend. We have a long tradition of overseas trips and in recent years groups have travelled to South America, Portugal, Nepal, Southern India and The Battlefields of Flanders and. These visits have been for sports tours, cultural exchanges, adventurous activities and to work on projects.

Cranbrook is an active school which will appeal to those prepared to give generously of their time and to take academic work very seriously. The school seeks to appoint staff who will involve themselves fully in the life of the school and applicants are invited to indicate areas where they would be able to make a contribution.

Cranbrook School welcomes NQTs and has a number of experienced mentors on our staff, all NQTs and their mentors are offered additional training through Kent Teach to help ensure a positive experience during their NQT year.

An interesting blend of the maintained and independent traditions, Cranbrook is a place with deep roots in the past but with its eyes clearly focused on the future. Our School Self Evaluation process includes a focus on ways to improve staff and student performance. A series of groups, led by different members of staff, investigate and report back on specific areas of interest. Our most recent Ofsted inspection (2015), and Ofsted boarding provision inspection (2018) both rated us as 'Outstanding'.

Much of Cranbrook's success results from the involvement of its committed Governing Body. The Governors take a genuine interest in the School, attend many of its functions, are involved in the regular reviews of departments and houses and work closely with the Leadership Group on new initiatives.

Cranbrook is very proud of its outstanding boarding status underpinned by its vibrant boarding community fully involved in the co-curricular activities within the school. This includes a programme of activities for the boarders remaining on site at weekends. Cranbrook has approximately 240 boarders shared across six houses each with its own ethos and identity and a marked sense of house pride. The facilities for our boarders are excellent, with the in house catering often highlighted for particular praise. As a school we have a long tradition of providing a full fixture programme on weekends and a variety of trips and activities on Sundays for which a number of staff give up their time. The boarding life of the School offers both staff and students many new and enriching experiences and makes this a most interesting and congenial place to work.

The town lies in the Weald of Kent, about fifteen miles from Maidstone, Ashford, Hastings and Tunbridge Wells, and London is just an hour away by train from nearby Staplehurst. General information about the school can also be found on our website at [www.cranbrookschool.co.uk](http://www.cranbrookschool.co.uk).

## MATHEMATICS AT CRANBROOK SCHOOL

The Mathematics department at Cranbrook School consists of nine teachers, some of whom are part time or work also in other departments. Alongside the head of department, there is currently a 2<sup>nd</sup> in department who has responsibility for Further Maths A level, Enrichment, Organisation of prefects and intervention for Years 11 and 13. There are six Mathematics classrooms, with full time teachers based in their own rooms. All rooms are easily accessible from the central Mathematics office which is a very well-equipped resource and work area, including a networked computer workstation and printer. The teaching rooms are all of a good size (seating capacity 32) and are all equipped with interactive whiteboards that use SMART technology and software.

Our year 7 and 8 classes are mixed ability with students being set at half term in year 9. We have five classes in year 9, moving to six in years 10 and 11. For these 2 years, students are taught Mathematics in two timetable blocks of equal parity, both with a top set (30 students) a middle set (25 students) and a bottom set (up to 20 students). Our lessons last 55 minutes and Maths students have six periods per fortnight in years 7 and 8, seven in years 9,10 and 11. If students take up A level then they will have nine periods per fortnight in year 12 and ten in year 13. The vast majority of our students follow the higher tier specification, with annually 1 or 2 students opting for the foundation paper. Our students take the Edexcel 9-1 GCSE course and we also offer the IGCSE Level 2 Certificate in Further Mathematics (AQA) to 20-30 of our brightest year 11 students who study the course outside of lessons. Mathematics results are consistently good, with 100% of students achieving a level 4 and above and over 50% achieving a level 7-9 over the past three years.

Mathematics A level is one of the most popular A level choices at Cranbrook with approximately 50 students taking it in each cohort. The students are spread over four classes with a further class of around ten students choosing also to take Further Maths A level. We follow the Edexcel specifications for both Maths and Further Maths and our students choose Mechanics modules for Further Maths alongside the compulsory pure modules. Our A level results are strong with 84.8% of our students achieving A\*-B grades in Mathematics and 100% of our students achieving A\*-A in Further Mathematics.

The Mathematics department is a strong supporter of enrichment in the subject and regularly takes part in UKMT challenges, both individual and group. We also enjoy enrichment days from The Happy Puzzle Company, take part in Cipher challenges, run puzzle clubs, invite outside speakers, run trips and generally encourage a love of the subject.

## HEAD OF DEPARTMENT – MATHEMATICS (TLR 1B)

<b>Job Purpose</b>	To lead and develop the mathematics department to ensure high standards of teaching and learning of all students as measured by appropriate performance indicators and Ofsted.
<b>Accountability</b>	<p><b>Teaching and Learning</b></p> <ul style="list-style-type: none"> <li>• Lead on appropriate teaching and learning methods</li> <li>• Utilise student performance data, to ensure target setting and pupil monitoring</li> <li>• Ensure the creation, consistent implementation and improvement of Schemes of Work across Key Stages 3-5.</li> </ul> <p><b>Leading and Managing Staff</b></p> <ul style="list-style-type: none"> <li>• Develop team members through recognition of their strengths and providing support as necessary</li> <li>• Motivate and inspire staff as a flag ship department within the school and ensure department implements innovations in teaching and learning</li> <li>• Ensure that the performance management of maths staff is rigorous and supportive and includes the use of appropriate challenging targets</li> </ul> <p><b>Strategic Direction</b></p> <ul style="list-style-type: none"> <li>• Develop and implement policies and practices for the department, which reflect the school's commitment to high achievement and improvement</li> <li>• Create and implement subject Improvement Plan which reflects school priorities</li> <li>• Be an active member of the school curriculum committee</li> </ul> <p><b>Resource Management</b></p> <ul style="list-style-type: none"> <li>• Ensure that each student has equal access to the curriculum and that resources are deployed to this end, ensuring best value in their procurement</li> <li>• Manage the relevant budget effectively, ensuring that best value principles are applied at all times</li> <li>• Create and maintain internal data records</li> </ul>
<b>Personal Qualities</b>	<ul style="list-style-type: none"> <li>• Demonstrate self-assurance and emotional insight.</li> <li>• Able to provide and receive honest feedback in a positive way to promote teaching and learning within the department</li> <li>• Take responsibility and understand the climate and culture of the school</li> <li>• Remain composed and positive, demonstrating resilience and optimism</li> <li>• Handle unexpected demands calmly and acts as a role model for others</li> <li>• Provides support and encouragement and support change</li> <li>• Address conflict effectively</li> </ul>
<b>Knowledge and Skills</b>	<ul style="list-style-type: none"> <li>• Be an excellent practitioner and advocate for mathematics and further mathematics</li> <li>• Be confident in the principle and practices of leadership and management of change</li> <li>• Embrace IT for learning, teaching and management of the department</li> <li>• An understanding of methods used to elicit and evaluate student satisfaction</li> </ul>
<b>General</b>	<ul style="list-style-type: none"> <li>• Contribute to the wider life of the school beyond the classroom</li> <li>• Assist the Senior Leadership Team in the recruitment of staff</li> <li>• Act as tutor</li> <li>• Undertake reasonable tasks as directed</li> </ul>
<b>Remission</b> 8 Periods over a two weeks cycle	<p><b>Accountable to:</b></p> <ul style="list-style-type: none"> <li>• Assistant Head Teacher</li> </ul> <p><b>Line Managers:</b></p> <ul style="list-style-type: none"> <li>• Departmental Staff including a second in department</li> </ul>

## **The Application and Appointment Arrangements**

We look forward to receiving your application completed as fully as possible and returned to the Head's PA by e-mail or post. Please do not send an additional CV.

Your statement should include your relevant experience for this post and what you think you can bring to Cranbrook's Maths department.

Mrs B Santer  
PA to Headmaster  
Cranbrook School  
Cranbrook School  
Kent TN17 3JD

The closing date for applications is **Friday 24 September.**

Interviews will be held in the week commencing **Monday 4 October**