

$$\log^3(x+1) - x \log^2(x+1) + x \log(x) + \frac{5x^2}{36} + \frac{1}{18} (2x^2 - 3x + 6) \log(x) + \frac{1}{4} (2 \log(x) - 1) \log(x+1) x^2 - \frac{13}{12}$$

Sir Joseph Williamson's Mathematical School
Aspire, Achieve, Excel



A member of The Williamson Trust

About our school

A little over three hundred years ago Sir Joseph Williamson, a leading politician and diplomat of the time, left £5,000 in his will to fund a free school in Rochester. Tasked with the role of instructing and educating the sons of freemen in 'mathematics and all other things which fit and encourage them for sea service' the Math, as the school became known, quickly established itself as one of the leading educational establishments in Rochester and Kent, setting the tone for the next three centuries.

By the 1960s the school had outgrown its original premises, and moved to a 30-acre site on the outskirts of Rochester. The space the new site afforded meant that an indoor swimming pool, a floodlit all weather pitch, a gymnasium, tennis courts and a sports pavilion could all be built on site. More recently the Sixth Form Study Centre has had an extensive extension to provide enhancing facilities for the students, a new Maths, Design Technology, Art and English blocks have been added. This coupled with excellent music facilities means that there is an area for every pupil in which to excel. Above all however, the school is a grammar school.

Almost without exception our pupils, following success at GCSE, enter our co-educational Sixth Form. Housed in its own building, completed in 1996, it has an impressive record of university entrants and close links with a number of top universities. The school believes that academic achievement should be the cornerstone of learning and strives to provide opportunities for each pupil to achieve to the very best of their capabilities. This is reinforced by our system of pastoral care, where pupils are treated as individuals and given a range of support and counseling as and when needed. In addition, we have a House System - on entry to the school each pupil is assigned to one of six Houses and takes part in inter-House competitions in sport, art, chess, music and poetry.

The school has twice received mention in Her Majesty's Chief Inspector's Annual Report and in November 2005 was designated "an outstanding school". This was again confirmed in November 2008 where one of the comments was "a buzz of excitement pervades the school".

The school is proud of its traditions, of its extensive extra curricular programme (enabling it to field teams each Saturday in all the mainstream sports) and of its recent programme of foreign visits and journeys (including a bi-annual cricket trip to the Caribbean, a pre-season rugby tour to the USA, visits to China, India, Costa Rica, Peru, Canada, France, Germany, Italy, Spain and Austria).

Music and Drama are a great strength of the school. The school runs its own peripatetic music service with over three hundred participants. There are regular drama productions, concerts and musical events held throughout the year. Both the annual Carol Service and the Founder's Day Service are held in the magnificent surroundings of Rochester Cathedral.

The Math became an Academy on 1st April 2011 and is the founder of the Williamson Trust. It is also a National Support School and the Headteacher is a National Leader of Education. The school was one of the first hundred in the country to become a Teaching School in July 2011.

These factors enable the school to offer unparalleled professional development opportunities for all staff.

'I think coming to this school really helped my confidence, by allowing me to really get involved.'

Year 7 pupil

Vision

We aim to develop a modern, world class educational experience that will inspire and challenge all learners to achieve to the best of their abilities and prepare them to live and work as active citizens of the 21st century. In achieving this, we are committed to creating a vibrant, diverse and innovative professional learning community in which every person matters, and which promotes:

- The highest standards of achievement;
- Traditional values of courtesy, respect and self-discipline;
- Leading edge practices in curriculum, teaching and learning;
- The provision of a challenging, enjoyable and tailored learning journey for all;
- An emphasis on participation, inclusion, enterprise, personal development and well-being;
- Partnership with parents and the wider community.



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Our pupils

Our pupils are drawn from the Medway Towns and surrounding area in Kent and come from a broad range of backgrounds. Each September approximately 180 pupils who have been successful in the 11+ test are admitted to Year 7. The number with special educational needs and disabilities is well below the national average, as is the number taking free school meals. The proportion of these pupils with English as an additional language is also small, but whatever the starting point of a pupil we endeavour to provide them with the environment to succeed.

Our efforts in this field are recognised by Ofsted, who noted, 'Support for vulnerable pupils is outstanding; every effort is made to integrate them into the school community and to enable them to participate successfully'.

'The polite and mature conduct of our pupils, (OFSTED) judged behaviour to be outstanding) assures that the school is a calm and purposeful environment for all'.

The pupils themselves are very proud of their school; this extends to the Sixth Form, where our policy of requiring students to wear the school uniform is seen as an attraction, such is the standing of the Math locally.

'My favourite thing that has happened in Year 7 was when I got my first drum lesson in September. I have had them every week since and I am now a grade 4'

Year 7 pupil

Community

No school can sit outside its community and we are no different. Our site is used seven days of the week and we have particularly strong links with many of the local primary schools that use our facilities.

We engage with the community in a number of ways, not least through our charity work. The school has raised more than any other in the country at the last for sport reliefs. At the last the pupils raised an outstanding £83,000 through their combined efforts.

The Math thrives on a friendly, positive atmosphere. Students and teachers enjoy excellent relationships. Teachers are there to help and support whenever needed'

Sixth Former

Aims and Values

In our two most recent inspections Ofsted rated us as an 'outstanding' school—it confirms that we are successful in what we set out to do, namely to provide the very best education, in the widest sense, for every pupil at the school.

We believe that the school is first and foremost a place of learning and that academic success is of vital importance. Successful learning can only occur in an orderly environment, so we expect pupils to work hard and to support the ethos of the school. Our standards of discipline are high, but always fair.

We value the individual and the contribution each can make to the community as a whole. We take special care to ensure that the individual needs are catered for, and as such pride ourselves on our pastoral support and monitor carefully each pupil's progress.

Finally, we believe in the importance of a corporate identity symbolised by a school uniform, which our pupils are proud to wear and that readily identifies them as members of our community.

“a buzz of excitement pervades the school”

- Ofsted



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$$\log(x)x^2 + \frac{x^2}{4} + (\log(x) - 1)x - 1$$

Attainment summary

2017 Key Stage Four

Nearly 60% of grades at A*-A (9—7)
98% gained Eng & Math (9—4)
98% of grades at A*-C
45% achieved 8 or more A*/A grades

Capped average points score per entry was 52.0, the equivalent of an A grade.

Progress 8 + 0.85

2016 A level

13.6% achieved A*
38% achieved A*/A
68% achieved A*-B.

'The Math school has provided my two sons with a rich and varied education, in the widest sense of the word. It is remarkable that the school catered for two very different individuals, bringing the best - academically, socially and emotionally - out of both of them. It is difficult to select the highlights - from music to sport, the camaraderie, pastoral care and the superb ethos of the school which is apparent to all visitors. It is an educational experience I would recommend to any parent!'

Parent Governor

The Curriculum

Key Aspects

- Within the framework of the National Curriculum, we ensure that pupils receive a broad and balanced education relevant to current and future needs.
- Traditional elements (including a study of the Classics) sit comfortably alongside the latest technologies.
- Much attention is paid to ensuring the foundations laid in primary school are built upon whilst at the same time extending the knowledge and skills acquired across the whole range of KS2 studies.
- Pupils study courses which match their interests and strengths and which supplement the National Curriculum core.
- The Sixth Form curriculum, tailored to an individual's needs, provides opportunity for appropriate specialisation. The vast majority of Sixth Formers are studying 4 A/S levels as well as an enrichment offer.
- The school does not operate an accelerated Key Stage Three curriculum.

Assessment and Reporting

Pupils' work is assessed regularly—this can often involve the pupils themselves. Each department operates within guidelines laid down by the school's Assessment, Recording and Reporting policy, which requires both monitoring and evaluation of progress to occur at frequent intervals throughout the year. Pupil progress is reported formally five times a year.

Careers Education

All pupils receive careers education and guidance throughout their school career, beginning in Year 7 with an introduction to recording achievement, self assessment and negotiation high on the agenda. More complex issues are addressed later through the development of core skills and the action planning process. Close contact is maintained with the Connexions Service and a member of the careers staff attends consultation evenings. Pupils in Year 11 receive personal interviews with a member of the Connexions Service. Parents and pupils are encouraged to make use of the advice available when choosing courses in the senior school and when considering transfer to further education, higher education or employment. The school is proud of its well resourced careers area. Computers provide access to advice/information programmes. Video facilities are also available. The Careers Department places great importance on establishing links with the wider community and works closely with the Medway Education Business Partnership in providing work experience opportunities. We welcome the involvement of parents and past pupils in the process of preparing current pupils for the world of work.

Investors in Careers Gold Quality Mark.



Homework

We place great emphasis on homework. It is regarded as an essential extension of classroom activity. All pupils have homework to complete each evening and details are recorded on "Show My Homework" website—an essential "aide memoir" for each pupil and a useful source of information for parents!



Sir Joseph Williamson's Mathematical School
Maidstone Road, Rochester, Kent, ME1 3EL

www.sirjosephwilliamson.medway.sch.uk