



Queen
Elizabeth's
School

FOUNDED IN 1573

A state
school like
no other

Appointment
of **Teacher of
Physics** for
September
2021



Background

The School

Queen Elizabeth's is a state-funded grammar school, with 448 years' experience of producing confident, able and responsible young men. We provide a totally meritocratic environment, in which our boys reach their very considerable potential both in their academic and extra-curricular pursuits.

Our rich history is reflected in the School Chronicle, which is read annually on Founder's Day and which records the Governors' requirement that the education we provide should be as much in "good manners as in nurture for learning". Similarly, our formal mission is "to produce young men who are confident, able and responsible".

To this end, we are committed firstly to the pursuit of academic development at the highest level among our boys. As a meritocracy, we unashamedly celebrate intellectual accomplishment and we seek to nurture clear thinking and scholarly curiosity. The fruit borne by this relentless focus is seen every year in our public examination results: QE is consistently placed at or very near the top of national league tables.

Second, we aim to inculcate in our boys attributes such as confidence, resilience and perseverance – qualities that will equip them to thrive at school, at university and beyond, whatever the storms of life may throw at them. This is achieved partly through our bespoke tutoring system and carefully structured pastoral arrangements, and partly through our expectation that all boys participate fully in the life of the School. We have an exciting, diverse range of extra-curricular activities through which every boy can pursue his interests and stretch himself as he learns new skills and talents.





Finally, through an emphasis on service within the School and through initiatives such as our Sixth Form external volunteering programme, we encourage boys to devote themselves to causes greater than themselves. We thus develop in them an awareness that genuine fulfilment comes through seeking to make a contribution to society rather than in pursuing only personal gain.

Queen Elizabeth's School, then, offers a meticulous and richly faceted holistic approach to the education of the boys in our charge. It is this approach, combined with our excellent facilities and a proud history dating back to 1573, that make the QE experience truly a state school experience like no other.

Neil Enright, Headmaster

Further information about the School is available on our website: www.qebarnet.co.uk





THE SUNDAY TIMES

| 2019 Rank | 2018 Rank | | Town |
|-----------|-----------|-------------------------------------------|----------------------|
| 1 | 1 | Queen Elizabeth's School | Barnet |
| 2 | 3 | Wilson's School | Wallington |
| 3 | 2 | The Henrietta Barnett School, Hampstead | London |
| 4 | 7 | Pate's Grammar School | Cheltenham |
| 5 | 4 | The Tiffin Girls' School | Kingston upon Thames |
| 6 | 5 | St Olave's Grammar School | Orpington |
| 7 | 6 | Reading School | Reading |
| 8 | 11 | Altrincham Grammar School for Girls | Altrincham |
| 9 | 8 | Colchester Royal Grammar School | Colchester |
| 10 | 15 | King Edward VI Grammar School | Chelmsford |
| 11 | 17 | Colyton Grammar School | Colyton |
| 12 | 20 | King Edward VI School, Stratford | Stratford-upon-Avon |
| 13 | 14 | King Edward VI Camp Hill School for Boys | Birmingham |
| 14 | 21 | Dartford Grammar School | Dartford |
| 15 | 12 | Kendrick School | Reading |
| 16 | 9 | Colchester County High School for Girls | Colchester |
| 17 | 25 | King Edward VI Camp Hill School for Girls | Birmingham |
| 18 | 28 | Chelmsford County High School for Girls | Chelmsford |
| 19 | 22 | The Judd School | Tonbridge |
| 20 | 29 | Lumen Christi College | Londonderry |
| 21 | 18 | Tiffin School | Kingston upon Thames |
| 22 | 19 | Sutton Grammar School | Sutton |
| 23 | 30 | Altrincham Grammar School for Boys | Altrincham |
| 24= | 24 | Nonsuch High School for Girls | Cheam |
| 24= | 10 | Tonbridge Grammar School | Tonbridge |
| 26 | 40 | Dr Challoner's High School | Little Chalfont |
| 27 | 65 | Strathearn School | Belfast |
| 28= | 32 | The Blue Coat School, Liverpool | Liverpool |
| 28= | 42 | Our Lady and St Patrick's College, Knock | Belfast |
| 30 | 16 | The Latymer School | London |
| 31 | 13 | St Michael's RC Grammar School, Finchley | London |
| 32 | 45 | Dr Challoner's Grammar School | Amersham |
| 33 | 26= | Dame Alice Owen's School | Potters Bar |

Recent A-level Results

| Year | % A* | % A* - A | % A* - B |
|------|------|----------|----------|
| 2019 | 45.3 | 86.2 | 95.7 |
| 2018 | 46.9 | 84.7 | 97.3 |
| 2017 | 41.5 | 82.0 | 96.0 |
| 2016 | 40.1 | 84.2 | 98.8 |
| 2015 | 42.2 | 85.3 | 98.4 |
| 2014 | 36.1 | 82.2 | 96.0 |
| 2013 | 39.3 | 87.4 | 98.3 |
| 2012 | 40.2 | 88.5 | 98.5 |



Recent GCSE Results

| Year | % A* (9-7) | % A*-A (9-7) | % A*-B (9-6) |
|------|---------------|-----------------|-----------------|
| 2019 | 79.4 | 90.8 | 97.5 |
| 2018 | 78.0 | 92.2 | 98.2 |
| 2017 | 70.9 | 91.8 | 98.9 |
| 2016 | 62.3 | 89.2 | 98.6 |
| 2015 | 69.6 | 93.5 | 99.3 |
| 2014 | 63.3 | 91.0 | 98.2 |
| 2013 | 66.1 | 92.5 | 99.0 |
| 2012 | 63.9 | 90.1 | 98.1 |



The School campus



The Role

Job Title: **Teacher of Physics / Science**

Responsible to: **Head of Physics (Mr Jonathan Brooke)**

We are looking for a well-qualified physicist and an outstanding classroom practitioner to join our team of subject specialists. The School welcomes applications from Newly Qualified Teachers and from those with experience.

The department is supportive, well-resourced and benefits from well-appointed accommodation and technician support. It has an outstanding reputation for pupil achievement.

The ability to motivate and stretch able boys, instilling a genuine enthusiasm for the subject, is essential. The successful applicant will need to be a committed team player. S/he will also bring new ideas to the teaching of Physics at all levels and will contribute to raising the profile of the department even further through extra-curricular activities. All teachers at Queen Elizabeth's are encouraged to play a full part in the wider life of this thriving School.

The successful applicant will be expected to teach Physics at GCSE (which boys study from Year 9) and A-Level in addition to an introductory science course which is delivered to Year 7 boys. Pupils are taught the sciences separately from the start of Year 8. Many boys progress from A-level Physics to related undergraduate degrees at some of the world's best universities.



Physics at Queen Elizabeth's School

We believe pupils are best served by a joyful approach to Physics which is focused on teaching a clear conceptual understanding of the underlying principles that form the rule book of the universe.

Examinations may, of course, sometimes be passed by candidates for whom key concepts remain opaque or even incomprehensible. However, we contend that examination success can be secured more easily if a robust and nuanced understanding of the physical law studied is the central aim of the teaching and learning process. Not only is that the most pleasurable and satisfying way to approach Physics, but it also best reflects the motivation of physicists who spend careers in research at universities and in industry, pushing back the frontiers of our understanding of the physical law.

For those boys without a marked talent or interest in Physics we still seek to engender some appreciation of the beauty of the subject. Those ending their studies at GCSE should gain an intimation of the deep structures of physical law which govern energy and matter, while we also hope to demystify things that surround us, such as the mains electricity supply, for example.

At A-level, pupils are expected to develop an understanding of the activity of modelling – physicists employing mathematical structures and tools to create a mathematical model of physical reality. We hope to give the boys some elementary experience of how these abstract models are used to predict and explain the patterns observed in the concrete world of physical reality. On a more mundane and pragmatic level, we recognise that many of our A-level students are progressing to degrees in Engineering, Economics or Medicine and not moving towards tertiary study of Physics: we help those boys get the best grades through the most efficient use of their time.

For pupils with a gift for Physics and a love of the subject for its own sake, we seek to nurture that ability and passion, and, with time, to alloy these attributes to a rigorous, analytical approach. This will prepare them for continued study of Physics (and closely related disciplines) as they leave QE and head off to leading universities.

Technology is used in Physics at QE in the presentation of computer simulations (for example, the PhET interactive simulations begun by Nobel Laureate Carl Wieman) and extensively at A-level in the use of data loggers, with a range of sensors including ultrasound motion sensors, light-gates, voltmeters and ammeters.

Extra-curricular opportunities in Physics include participation in the Institute of Physics Challenges and Olympiad, in which QE has enjoyed considerable success.



How to Apply

Covering letters, CVs and application forms should be submitted online at <https://www.qebarnet.co.uk/job-application-form/>

If you are unable to apply online please email your application to recruitment@qebarnet.co.uk.

If candidates prefer to send their application by mail, it should be addressed to:

Neil Enright
Headmaster
Queen Elizabeth's School
Queen's Road
Barnet
Hertfordshire
EN5 4DQ

The closing date for applications is 0830 hours (GMT) on Monday 26 April 2021. Applications will be assessed as they are received and interviews may occur at any stage during the recruitment process.

Our new Teacher of Physics will start in September 2021. The role will be remunerated according to his or her experience and qualifications.

Selected candidates will, in the first instance, be invited to a Zoom meeting with the Head of Physics, the Deputy Head (Academic) and the Headmaster.

The successful candidate will be able to demonstrate at interview:

- Outstanding subject knowledge.
- Genuine enthusiasm for working with young people.
- A willingness to give generously of time beyond the timetabled school day to support our pupils, school events and activities.
- A commitment to educational excellence and the ethos of the School that will help to ensure our pupils thrive.



Queen Elizabeth's School is committed to safeguarding and promoting the welfare of children. Applicants must be willing to undergo child protection screening appropriate to the post, including checks with past employers and the Disclosure & Barring Service. We are an equal opportunities employer.