



**FROM THE HEADMASTER: PHILIP BRITTON**  
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### **TEACHER OF PHYSICS AND MATHEMATICS**

#### **THE POST:**

The position is for a full time Physics and Mathematics teacher to work between two strong and vibrant Departments. This is a unique opportunity to teach across two highly successful departments, predominantly in the Physics department initially with a more equal allocation in future.

#### **THE SCHOOL:**

With 2,300 students on site, Bolton School is one of the largest independent day schools in the country. It is situated a mile or so from the town centre in a pleasant wooded campus, surrounded by 32 acres of playing fields. Two adjoining and similar buildings, now attached by a recently constructed, state of the art sixth form centre house the Boys' and Girls' Senior Schools, each under a separate Head and each providing a traditional academic education from the age of 11 years. There are also separate Junior Departments for boys and girls from the age of 7 and a coeducational Infant School and Nursery.

Entry to the Junior and Senior Schools is by competitive testing and interview. Interest in the School remains very strong and numbers have increased in the senior school in recent years. Bolton School selects on academic ability, with around three applications per place in the Boys' Division. Public examination results are excellent, and despite the increased competition for university places, a large number go to their first or second choice university. At GCSE, over 60% of results are grade A or A\*. Whilst the academic work of the two senior schools is largely separate, some joint working exists in the Sixth Form and there is considerable co-operation in extra-curricular activities. We seek to achieve the best of both worlds: mixed activity and single sex teaching.

The school, serving a wide area of the North West through over 20 coach routes, has for many years offered some form of fee assistance to a substantial proportion of its pupils. The school prides itself not only on its academic tradition, but on the immense range of other activities which are vigorously pursued both in and beyond the school day. The school has just completed its very ambitious plans for the development of new facilities and the refurbishment of existing buildings. A new Infant School and extended Boys' Junior school were opened in summer 2009 and a new Girls' Junior school opened in 2010. A newly built shared sixth form centre, the Riley Centre, was opened in the summer of 2013. Following this, attention is on our sports facilities.

The Headmaster is a member of the Headmasters' Conference and the School operates its own salary scale.

#### **THE PHYSICS DEPARTMENT**

Physics is taught as a separate science subject to all boys from Year 8 to Year 11. At GCSE, the large majority of boys work towards the AQA GCSE 9-1 Physics examination, with a small number being entered for the Trilogy Award. In Year 12, four subjects are studied, with physics continuing to be a popular choice. Over 40 boys opted to study physics in year 12 this year. The department has 5 laboratories on one corridor, each equipped with Apple TV, computer and data projector. Two laboratory technicians support the work of the 7 physics teachers in this well-resourced department.

The physics department use iPads to enhance teaching and practical work. Feedback is sometimes given using various apps; online self-study courses help students to consolidate learning or enables them to

progress beyond the scope of the specification, and there are online Kerboodle textbooks which the students can access.

There is a science club for lower-school boys. We have a Physics Ambassadors Club for the sixth form pupils which enables them to take part in events such as the Physics Olympics, delivering content at an Apple Education Seminar, running physics help sessions and revision sessions for younger students. They also meet to tackle questions which go beyond the scope of the course and allows them to take part in the various Physics Olympiad competitions. We are pleased to be able to offer GCSE Astronomy as an extra-curricular activity for boys in year 9 and 10. We also attend lectures and invite lecturers into school. The department is involved with physics education in the widest sense: two members of the department work as School Based Physics Coaches for the Institute of Physics; one member of the department has many years of experience marking scripts for the AQA Examination board and the Headmaster was awarded an MBE for services to Physics

### **THE MATHEMATICS DEPARTMENT:**

The Mathematics Department has a long record of success at all levels.

At GCSE, the School enters candidates for the Edexcel IGCSE, where in 2019 70% of boys gained an 9, 8 or 7 grade. For Years 10 and 11, the main course books are the Edexcel GCSE Maths Higher. For Years 7, 8 and 9, we use the STP books 7A, 8A and 9A and the department's own resources. The pupils access the textbooks through kerboodle using their IPADS.

At AS/A2 we currently follow the Edexcel syllabus supported by the 'Pearson Edexcel A Level' series of textbooks. The department offers both Mathematics and Further Mathematics. In 2019, 74% of boys gained an A\*- B grade at A level and 100% of the Further Maths cohort gained A\* to C.

Students take part in a variety of extra-curricular Mathematics events and competitions, including the Mathematics Challenge and Olympiad. A good number of boys go on to study Mathematics at University.

All staff and boys are issued with iPads to enable access to resources and, if required, for the collection and return of work via the School's Wi-Fi network.

The Department is housed in 8 adjacent rooms, with a large Maths staffroom on the same corridor. Within the staffroom, each member of the department has their own desk and a computer linked to the school network. All of the rooms contain a Smart Board and projector all linked to the school network. There are a number of software packages on the school network including Autograph, Cabri and a set of interactive excel files called the virtual textbook. The department subscribes to the Hegarty website. There is a very strong collegiate atmosphere in the department, genuine expertise in and enjoyment of the subject and commitment to the success of boys in the subject at all levels.

### **THE POST**

We hope to appoint a well-qualified graduate in EITHER Physics or Mathematics who is able to add to and complement the strengths of both departments. The position may equally suit a newly qualified member of the profession, or someone with more experience; in either case the successful applicant will be a strong classroom practitioner who is able to infuse others with a love for Mathematics and Physics and to inspire the outstandingly able boys as well as to nurture those far less confident in their physics and mathematical ability. A willingness to contribute to the extra-curricular life of the School is essential, with all staff playing a part in this important aspect of the school.

### **APPLICATIONS:**

We ask candidates to apply online for the position via the School's website at <https://bit.ly/2EqVN6Q>

The closing date is 11.00am on 24<sup>th</sup> February 2021. The interview date is 1<sup>st</sup> March 2021, although this may change if schools are still closed. A lesson will be taught as part of the interview process, details of which will be forwarded to those short-listed.

Bolton School is a warm and friendly community. We believe it provides an unusually rich experience for everyone involved and we are sure that you will find it to be a fulfilling place to work. We look forward to receiving your application.

A handwritten signature in black ink, appearing to read 'Philip Britton'.

**Philip Britton**  
**MBE, MA, MEd, FInstP**  
**Headmaster**



## **JOB DESCRIPTION**

### **TEACHER OF PHYSICS AND MATHEMATICS**

#### **BOYS' DIVISION**

#### **MAIN PURPOSE OF JOB:**

To teach Mathematics AND Physics throughout the school. To support the school's aims and objectives and to contribute to the review and development of its policies and procedures in order to ensure and maintain best practice and thereby promote the achievement and well-being of the pupils.

#### **MAIN DUTIES:**

##### **General Duties**

- To promote the general progress and well-being of pupils and to share in the corporate responsibility for maintaining good order and discipline in line with the school's Behaviour Policy.
- To participate in the school's pastoral system when required, in accordance with the job description of a form tutor or year tutor as outlined in the separate job description and amplified in the Divisional Handbook.
- To safeguard the health and safety of pupils when they are authorised to be on school premises and when they are engaged in school activities elsewhere.
- To register the attendance of pupils, and to carry out a share of supervisory duties, whether they are to be performed before, during or after school sessions.
- To provide guidance and advice to pupils on educational matters.
- To cover for absent colleagues within the terms of the agreed procedures.
- To participate in meetings, administrative and organisational tasks related to the post.
- To attend assemblies.
- To carry out any reasonable duties given by the Head.

##### **Specific Professional Duties**

#### **1. Teaching and Assessment**

- To plan lessons for courses, having due regard to the curriculum.
- To teach pupils, according to their educational needs, including the setting and marking of work.
- To assess, record and report on the development, progress and attainment of pupils.
- To provide or contribute to oral and written assessments, reports and references relating to individual pupils and groups of pupils.
- To participate in arrangements for preparing pupils for external examinations.

#### **2. Educational Methods**

- To share, advise and co-operate with others on the preparation, development and review of teaching programmes and materials, methods of teaching and assessment and pastoral arrangements.
- To make appropriate use of textbooks, ICT and other learning resources.
- To review methods of teaching and learning activities from time to time.
- To keep up-to-date with research and developments in subject(s) taught.

#### **3. Working with others**

- To participate in relevant meetings – departmental, staff, pastoral, INSET.
- To contribute to the programme for the induction and assessment of newly qualified and trainee teachers.
- To supervise any person providing support within the classroom.

#### **4. Communication with Parents**

- To communicate and consult with parents via year group consultation evenings.
- To liaise with the Head of Department and the relevant Head of School when further communication is deemed necessary.

#### **5. Staff Development**

- To participate in the school's Professional Review arrangements.
- To take responsibility for own professional development and to set objectives for improvements.
- To participate in arrangements for further training and professional development as a teacher.

#### **6. General Notes**

- The above responsibilities are subject to the general duties and responsibilities contained in the Governors' Statement of Employment Particulars.
- This job description allocates duties and responsibilities but does not direct the particular amount of time to be spent in carrying them out and no part of it may be so construed.
- This job description is not necessarily a comprehensive definition of the post. It will be reviewed regularly and it may be subject to modification or amendment at any time after consultation with the holder of the post.
- The conditions of the Bolton School Salary Scheme provide enhancement to DfE salary provision in recognition of a strong contribution to the extra-curricular life of the school.



## PERSON SPECIFICATION

### TEACHER OF PHYSICS & MATHEMATICS

#### BOYS' DIVISION

EDUCATION/TRAINING/QUALIFICATIONS	ESSENTIAL/ DESIRABLE	EVIDENCE Application Form, Interview, Reference
Qualified Teacher Status.	D	Application form
Degree in Mathematics, Physics or related subject.	E	Application form
Upper Second Class Honours Degree from a respected University.	D	Application form
Recent participation in a range of relevant in-service training.	D	Application form
KNOWLEDGE/EXPERIENCE	ESSENTIAL/ DESIRABLE	EVIDENCE
Classroom teaching experience within the senior age range, with excellent subject knowledge and classroom management skills.	E	Application form, Interview & Reference
Experience of teaching Mathematics or Physics.	E	Application form, Interview & Reference
An understanding of pupils' educational development from 11 - 18 years.	E	Application form & Interview
Involvement in the development of schemes of work which prepare pupils for GCSE, AS, A2 level and Oxbridge examinations.	D	Application form & Interview
Experience of planning and implementing the curriculum and assessment, including cross-curricular aspects.	D	Application form & Interview
Proven record for securing good public examination results.	D	Application form, Interview & Reference
Knowledge of effective teaching and learning strategies across the age and ability range.	E	Application form, Interview & Reference
Experience of school improvement strategies, including use of comparative data to set targets.	D	Application form & Interview

An appreciation of local and national policies, priorities and statutory frameworks, including those relating to the safeguarding of children.	E	Application form, Interview & Reference
Application of ICT to teaching and learning.	E	Application form & Interview
Experience of educational visits.	D	Application form & Interview
Knowledge and/or experience of the application of a virtual learning environment (VLE) as an aid to teaching and learning.	D	Application form & Interview
<b>PERSONAL SKILLS AND ATTRIBUTES</b>	<b>ESSENTIAL/ DESIRABLE</b>	<b>EVIDENCE</b>
Good communication skills with the ability to communicate effectively across the Foundation.	E	Application form, Interview & Reference
Inter-personal skills.	E	Application form, Interview & Reference
Ability to prioritise time effectively and to plan ahead.	E	Application form, Interview & Reference
Confidence with an ability to motivate others, particularly pupils.	E	Application form, Interview & Reference
Self-awareness and presence.	E	Application form, Interview & Reference
Commitment, enthusiasm, integrity and reliability.	E	Application form, Interview & Reference
Independent thinker, able to put arguments forward and debate an issue.	D	Application form & Interview
Flexibility and a willingness to learn.	E	Application form, Interview & Reference
Ability to work as a member of a team.	E	Application form, Interview & Reference
Caring, kind and approachable, especially in relation to pupils.	E	Interview & Reference

Positive and optimistic.	E	Interview & Reference
Creative.	D	Application form & Interview
Willingness to become involved in the wider life of the School.	E	Application form, Interview & Reference





## **TERMS AND CONDITIONS**

### **TEACHER OF PHYSICS AND MATHEMATICS**

#### **BOYS' DIVISION**

<b>SALARY</b>
The starting salary will be dependent on experience. Bolton School has its own salary scale.
<b>HOURS OF WORK</b>
During term time staff will be expected to attend personally to such duties connected with the work of the School during any hours, including out of school hours, as the Head may reasonably direct. In addition, those who join the School will be required by the Head to work for varying short periods after the end, and before the beginning of any term. All teachers will be expected to make a contribution to the extensive extracurricular programme.
<b>HOLIDAY</b>
All school holidays except as described above.
<b>LINE MANAGEMENT</b>
Head of Physics and Mathematics.
<b>OTHER BENEFITS</b>
<ul style="list-style-type: none"><li>▪ Where appropriate fee remission arrangements will be offered for children to attend the Senior School.</li><li>▪ In line with school policy teachers will have the opportunity to arrange to educate their children from Nursery age to 6<sup>th</sup> form; all on the Bolton School campus.</li><li>▪ Convenient, affordable, quality childcare provision will be available before and after the school day for children who are also Bolton School pupils.</li><li>▪ Sporting and leisure facilities will be available including gym, outdoor pursuits centre, swimming pool and tennis courts.</li><li>▪ Lunches will be provided free of charge on campus.</li><li>▪ Training and Development Opportunities will be offered.</li><li>▪ Payment whilst absent will be in accordance with the current Teachers' Sick Pay Regulations, as defined in the School Teachers' Pay and Conditions Document.</li></ul>

All offers of employment will be made subject to the successful applicant providing the original qualification certificates, relevant to the position and as outlined in his/her application form. Identification documents will also be required including passport or picture driving licence, birth certificate, marriage certificate where applicable, current pay slip and evidence of address e.g. utilities bill, bank statement. Eligibility to work in the UK will also be checked.

After the appointment is made the successful candidate will be required to complete a medical questionnaire and a check will be made to see if a prohibition from teaching order exists along with a check of the Children's Barred List and an Enhanced Criminal Records Check through the Disclosure and Barring Service. The School will seek two references prior to the interview.

The successful applicant will be required to complete a twelve month probationary period.