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| **Job Description****The School is committed to safeguarding and promoting the welfare of children and young people and expects all staff and volunteers to share this commitment.** |
| **Summary of the Role:** | Teacher of Physics & Key Stage 3 Maths |
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| **Main Duties and Responsibilities:** | * Promoting and safeguarding the welfare of children and young persons for who you are responsible and with whom you come into contact with.
* Maintenance of discipline and an atmosphere which is conducive to learning during lessons.
* Teaching of Physics to students throughout the senior school from Years 7 to 13 in line with the schemes of work and subject specifications as adopted within the department. Teaching of Maths to KS3 students.
* Preparation and presentation of lessons of suitable content, level and interest to engage pupils throughout the age range.
* Setting of homework tasks in line with the homework timetable as prescribed by the senior management of the school.
* Marking of pupils' work.
* Keeping records of the standard achieved by pupils in their work.
* Writing of reports on pupils as required by the senior leadership of the school.
* Attendance at consultation evenings with parents as required by the senior leadership of the school.
* Undertaking of practical work with classes after completing adequate risk assessments.
* Attending departmental trips after completing adequate risk assessments.
* Setting and marking of examinations as designated by the Head of Department.
* Preparing mounting appropriate corridor and classroom displays of pupils’ work.
* Attendance at the Open Morning to supervise pupils performing practical work and to speak to parents and prospective pupils.
* Teaching other sciences at KS3 level as appropriate..
* Keeping up to date with developments in the subject.
* Attendance at relevant courses to develop skills and knowledge appropriate to the teaching of the subject.
* Undertaking additional administrative tasks as required by the Head of Department.

● Provide support for the head of department in the day to day running of the  department.* Acting as form tutor and taking responsibility for the pastoral care of the pupils in the form.
* Attendance at assemblies with the form for whom they are responsible.
* Attendance at the annual Speech Night.
* Supervisory duties during breaks and/or lunchtime.
* Attendance at meetings as required by the Head of Department and senior managers.
* Playing a part in the extra-curricular life of the school.
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You may also be required to undertake such other comparable duties as the Principal requires from time to time.

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| **Person Specification****The Schools are committed to safeguarding and promoting the welfare of children and young people and expects all staff and volunteers to share this commitment.** |
|  | **Essential**These are qualities without which the applicant could not be appointed | **Desirable**These are extra qualities which can be used to choose between applicants who meet all of the essential criteria | **Method of Assessment** |
| **Qualifications** | *The professional, technical or academic qualifications that the applicant* ***must have*** *to undertake the role or the training that they* ***must have*** *received** **Honours degree in a physics-related subject**
* **Post-graduate certificate in education**
 | *The professional, technical or academic qualifications that the applicant* ***would ideally have*** *to undertake the role or the training that they* ***should ideally have*** *received** **Initial Teacher Training Qualification**
 | Production of the applicant's certificates |
| **Experience:** | *The categories of work or organisations, types of achievements and activities that would be likely* ***to predict*** *success in the role.* | *The categories of work or organisations, types of achievements and activities that would be likely to* ***contribute to*** *success in the role.** **Experience of teaching physics up to and including A level standard.**
* **Experience of teaching Maths at KS3**.
* **A record of successful achievement in teaching GCSE and A level students.**
 | Contents of the Application Form.InterviewProfessional references |
| **Skills** | *The skills* ***required*** *to perform effectively in the role.** **The ability to function as an integral member of a teaching team.**
 | *The skills that would* ***enable*** *the applicant to perform effectively in the role.** **The ability to adopt a variety of teaching techniques.**
* **The ability to use a variety of ICT techniques effectively in teaching.**
* **The ability to teach additional sciences at KS3 level.**
 | Contents of the Application FormInterviewProfessional references |
| **Knowledge** | *The knowledge* ***required*** *by the applicant to perform effectively in the role.** **Sufficient knowledge and understanding of the subject to teach effectively up to A level standard.**
 | *The knowledge that would* ***enable*** *the applicant to perform effectively in the role.** **An awareness of recent developments in Physics.**
* **An awareness of recent developments in Maths teaching.**
 | Contents of the Application FormInterviewProfessional references |
| **Personal competencies and qualities** | *The personal qualities that the applicant* ***requires*** *to perform effectively in the role and to ensure that the applicant safeguards and promotes the welfare of children and young people** **Motivation to work with children and young people.**
* **Ability to form and maintain appropriate relationships and personal boundaries with children and young people.**
* **Positive attitude to use ofauthority and maintainingdiscipline.**
* **Interest in and enthusiasm for Physics.**
* **Ability to express thoughts and ideas clearly and accurately in speech and in writing.**
 | *The personal qualities that would assist the applicant to perform effectively in the role.** **Willingness to adopt and to share new ideas.**
* **Ability to collaborate with team members.**
* **Cheerfulness, friendliness and good humour.**
* **Willingness to be actively involved in the extra-curricular life of the department.**
 | Contents of the Application FormInterviewProfessional references |

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| **The‌ ‌Physics‌ ‌Department‌** ‌ ‌**This‌ ‌is‌ ‌a‌ ‌well‌ ‌established‌ ‌department‌ ‌with‌ ‌highly‌ ‌qualified‌ ‌Science‌ ‌teachers‌ ‌and‌ ‌Physics‌ ‌specialists.‌ ‌****There‌ ‌is‌ ‌technical‌ ‌support‌ ‌from‌ ‌one‌ ‌full-time‌ ‌Physics‌ ‌technician.‌ ‌Our‌ ‌aim‌ ‌is‌ ‌to‌ ‌support,‌ ‌challenge‌ ‌and‌ ‌****inspire‌ ‌everyone‌ ‌in‌ ‌our‌ ‌community.‌ ‌The‌ ‌department‌ ‌has‌ ‌a‌ ‌very‌ ‌successful‌ ‌examination‌ ‌record‌ ‌at‌ ‌GCSE‌ ‌and‌ ‌A‌ ‌level.‌ ‌We‌ ‌often‌ ‌have‌ ‌Oxbridge‌ ‌applications‌ ‌for‌ ‌Engineering‌ ‌and‌ ‌Natural‌ ‌Sciences.‌ ‌We‌ ‌combine‌ ‌excellent‌ ‌subject‌ ‌knowledge‌ ‌and‌ ‌passion‌ ‌for‌ ‌the‌ ‌subject‌ ‌with‌ ‌the‌ ‌latest‌ ‌pedagogy‌ ‌and‌ ‌technology‌ ‌to‌ ‌ensure‌ ‌our‌ ‌pupils‌ ‌learn‌ ‌effectively‌ ‌and‌ ‌enjoy‌ ‌Physics.‌ ‌All‌ ‌lessons‌ ‌are‌ ‌taught‌ ‌in‌ ‌‘state‌ ‌of‌ ‌****the‌ ‌art’‌ ‌laboratories.‌** ‌ |
| **Year 7 – 9****Years 9 – 11****Years 12 - 13** | * Our syllabus is largely based on the KS3 Activate Science course, also followed by the biology and chemistry departments.
* One 60 minute lesson of Physics per week.
* The GCSE course begins in Year 9. At the end of Year 9 pupils are set and this will determine whether the pupils go on to study AQA Science Trilogy or AQA Separate Science course.
* Year 9 - 3 x 60 minute lessons per fortnight
* Year 10: 4 x 60 minute lessons per fortnight
* Year 11: 5 x 60 minute lessons per fortnight
* Pupils study the AQA Physics course at A Level in mixed gender classes. There are 10 lessons per fortnight, split between two teachers. Currently we offer the Turning Points option, but have previously taken the Engineering Physics option.
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| **Equipment** | * The Physics Department is based in the three ground floor labs of the Science Centre. The laboratories were refurbished at a cost of £500,000 in 2017. The laboratories have everything you would want as part of a modern science education including 65” Promethean touch screen boards.
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| **Extra Curricular Activities** | * The department has been involved in many different activities including: visits to lectures and places of interest, science shows and demonstrations, competitions within school; hosting STEM ambassadors, quizzes and national competitions e.g. Physics Olympiad and the Physics Challenge.
* We have recently taken part in the cross-curricular STEM project Race to the Line with the Computer Science and Design Technology departments.
* Our Year 12 pupils participate in the Industrial Cadets Gold Programme, which involves regular liaison with local engineering companies and residential trips to local universities.
* The department organises trips to places of interest, including visits to universities, museums and hospitals.
* The department contributes to the school Science club, in conjunction with the other science departments..

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| **The‌ ‌Mathematics ‌Department‌** ‌**This is a large department, encompassing both the Boys’ and Girls’ Schools. The department consists of 7 members of staff. The department has a very successful examination record at GCSE, AS and A2 levels.** **Our Maths vision is to teach pupils how to reason, develop creative problem-solving skills, be fluent mathematicians and enjoy maths. All lessons are taught in seven well-equipped, dedicated Maths rooms.** |
| **Year 7 – 8****Years 9 – 11****Years 12 - 13** | * Our differentiated schemes of work at Key Stage 3 aim to lay the basic foundations of:
* Number
* Algebra
* Ratio, Proportion and Rates of Change
* Geometry and Measures
* Probability
* Statistics
* Pupils are taught in ability sets from Year 7.
* Years 7-8 - 6 x 60 minute lessons per fortnight
* The GCSE course begins in Year 9.
* Year 9-11- 7 x 60 minute lessons per fortnight.
* At GCSE level all pupils in the department follow the EDEXCEL Specifications.
* Pupils are taught in ability sets at GCSE with most pupils entered for the Higher Tier exam.

· * The department offers EDEXCEL Maths at A Level and is a popular choice for our students. AS and A level classes are taught in 10 lessons per fortnight, split between two teachers.
* The department also offers Further Maths AS and A Level.
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| **Equipment** | * The department is well stocked with a range of textbooks, online learning resources and practical equipment for each of the key stages.
* All Maths classrooms have projectors for use with Chromebooks or desktops to allow colleagues to make use of ICT in their teaching.
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| **Extra Curricular Activities** | * The department makes a significant contribution to the extra-curricular life of the school and the successful candidate would be expected to be involved with this.
* We take part in well known Maths National competitions such as the UKMT Maths Challenges and we also belong to the Further Maths Network.
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