## Personal Specification: Physics Teacher

We are looking for a well-qualified, outstanding Physics Teacher who maintains excellent relationships with pupils of all ages.

The qualities of the successful candidate will include:

* An excellent knowledge of Physics and related pedagogy to enable the development of an outstanding learning environment.
* The ability to employ a range of teaching strategies to develop an enthusiasm for Physics amongst pupils.
* The ability to teach Science at KS3 and KS4 and Physics to A Level.
* A commitment to active learning and the development of practical skills including the use of ICT.
* The ability to accept responsibility and work independently.
* The ability to organize, prioritise, plan and co-ordinate a variety of tasks and procedures, and to work under pressure.
* Effective communication skills and the ability to create good professional relationships. The job involves formal and informal contact with pupils, parents and colleagues.

We are looking to employ a good team member who shares the aims of the Science Department and who is willing to contribute to extra-curricular enrichment activities.

# **The Science Department**

* The Science Department at HBS is committed to providing an exciting, varied and challenging experience of science for all students. We place a particular emphasis on collaborative learning and learning through practical investigation. We also place huge importance on the development of independent study and critical thinking. We aim to produce academically minded scientists who are equipped to go on, as large numbers do, to university and a science-based career.
* A wide variety of enrichment activities take place throughout the year and there is an expectation that all Science Teachers contribute to an exciting enrichment programme.

**The Science Curriculum**

Key Stage 3

* Teaching broadly follows the National Curriculum, but these have been customised to our own students’ abilities. Students have three lessons of 70 minutes each week with 25 girls per group. In Years 7 and 8, Science is taught as a coordinated subject.

Key Stage 4

* The GCSE courses begin at the start of Year 9; Biology, Chemistry and Physics are taught separately by subject specialists. We follow the AQA Biology, Chemistry and Physics GCSE courses, so all girls study “Triple Science”. In Years 10 and 11 students have four lessons a week of 70 minutes duration. One each of Biology, Chemistry and Physics and one “coordinated” lesson. There is no setting in Science.

Key Stage 5

* In the 6th Form the Sciences are extremely popular options. There are four Biology, four Chemistry and two Physics teaching groups in Year 12 and in Year 13. For each group there are three lessons a week, structured as two “double” lessons and one “triple”. The teaching of each A Level group is shared by two teachers.

**Staff in Science:**

* Science is the biggest curriculum area in the school and has the largest department of staff to support this. The department works as a team and has an ethos of sharing ideas and pooling resources for mutual benefit.
* There are nine Science Teachers. There are separate Heads of Biology, Chemistry and Physics, and two teachers act as KS3 and KS4 “Science Coordinators”.
* A Senior Technician works in collaboration with two other Science Technicians.

**Accommodation**

* We have eight state of the art specialist Science laboratories on the three floors of the Science Wing of the main building.
* All laboratories have a promethean interactive whiteboard and a ceiling mounted data projector.
* There is a trolley of laptops for class use on each floor of the Science Wing.