



## **Upton Court Grammar School Science Department**

The Science Department is a forward looking Department which makes a real difference in the life of our students, moving them towards a better future and believes that in seeking excellence, one must look to the solution not the problem, encouraging the students to work to overcome difficulties in order to succeed. We provide a vibrant, exciting learning experience for all pupils led by subject experts whose first concern is the progress of their students. Our students can expect fascinating lessons where in depth Science is presented in the wider world context. We are looking for a well-qualified and enthusiastic teacher of Physics to contribute to the work of this lively and successful Department.

The Science Department have 10 recently refurbished laboratories. The Department is committed to the delivery of broad and balanced Science throughout the school. In Years 7 and 8 the National Curriculum is delivered through 3 hours per week of Science. At GCSE, students study for either Trilogy or Combined Science at higher level on the AQA specification. Most members of the Department teach two or even three Sciences at GCSE whilst mainly delivering their own specialist subject. All teachers deliver their own specialist subject at A level. The Department has a tradition of high academic success with many of our A Level students going on to higher education in Science & Technology.

The Science Department has developed strong links with universities which bring inspirational lecturers into school and with local businesses whose involvement enhances the educational experience. We encourage student involvement both curricular and extra-curricular and run exciting activities and educational visits to enhance and extend students, such as the British Olympiad

The Science Department is well supported by three subject specialist technicians.

The Physics department creates a supportive environment for all, developing motivated and inquisitive students and gives them the knowledge, skills and confidence to grow into future engineers and scientists.

### **Physics at AS and A2**

The EDEXCEL linear Physics course is taught at A level with very good results. The course is based around practical application and relevance to everyday life. Students are motivated by the enthusiastic and expert delivery of the curriculum and the opportunities offered them to join in with the wider life of the Department.

### **Physics at KS3 and KS4**

At KS3, Physics is taught as discrete units written by us as part of a broad and balanced Science course covering the objectives of the National Curriculum. We use the Activate scheme to support our teaching at Key Stage 3. Teachers are expected to be able to deliver all three sciences at KS3.

At KS4, we currently follow the AQA A Science specification. We mostly teach in our own specialism but may also teach one other Science at GCSE and we would expect the successful candidate to be able to offer at least two Science subjects at GCSE. Most of our students take the Separate Sciences, i.e. Physics ONLY, however a few students will take the Combined (Trilogy) Science option from the end of year 10. Schemes of work and Unit Plans for GCSE have been written in-house and are regularly updated.