



# Brigidine School Windsor

## PHYSICS

### **Overview of Subject**

Physics explores questions like 'How did the universe start?' and 'How will it end?' 'What is a black hole?' Is time travel possible? If you have an enquiring mind, always asking why things happen, then Physics will help you find the answers. It forms the basis of most modern technologies and holds the future to global well-being.

### **Prerequisite**

C grades in Science and Additional Science, and in Mathematics, but B grade or above is preferable.

### **Skill Acquired During Course**

We build upon the skills acquired at GCSE, and develop strong problem-solving and lateral thinking skills. An appreciation for "How Science Works" and the impact of Physics on the wider community and environment is important at A-level.

### **Assessment Procedure: e.g. Coursework/Exam, No. of Papers**

There is no coursework. For AS, there are two modular examinations and a practical test based on an industrial visit or case study. For A2, there are two further modular examinations and a practical assessment.

### **Career Opportunities**

With Mathematics (preferable, though not essential, as a companion subject), you have an amazing choice of courses at university. Not just the obvious (Physics-based course), Physics is an essential qualification for Engineering, including Chemical Engineering courses. It is also an excellent starting point for many other degree courses, such as Law, Architecture and Psychology to name but a few. Since there is a shortage of potential Maths/Physics applicants, entry to some universities is becoming more accessible.

If you decide to take a gap year before going on to higher education, there are opportunities to work for a year in an interesting and challenging job in industry. You may receive sponsorship for your university study, and will have gained recognition for what you have achieved.

Careers open to Physicists include:

Research and development	Medical Physics
Astronomy and Astrophysics	Geophysics
Meteorology	Finance
Teaching	

Employers today actively seek out people who can prove their ability to think logically, understand complex ideas and apply them to the real world. Whether you want to pursue a career in science, the media, education, business or a host of other fields, Physics can help give you the edge.

Your future matters, so if you have an enquiring mind, enjoy a challenge and like solving problems, give yourself a chance by studying Physics – the subject of the future.

Whatever you want to be in life, Physics can help you achieve it.

### **Present Student's Comment:**

*"It is a simple subject really and the practicals are great fun".*

**BOARD:** Edexcel

**SYLLABUS NO:** AS=8PH01, A2=9PH01