

# Physics AS/A2

## EXAMINATION BOARD OCR

### ENTRANCE REQUIREMENTS

GCSE Science double award minimum Grade BB or GCSE Physics minimum Grade B. GCSE Mathematics minimum Grade C is also essential.

### SOME QUESTIONS YOU SHOULD BE ASKING

#### Q. Is Physics a very difficult subject at post 16?

A. Yes, it is a difficult subject, but with a positive attitude **you will be** successful and able to cope.

#### Q. How do I know I'll cope with post 16 Physics?

A. If your Science teacher feels you will cope, this is an excellent commendation. Your own enthusiasm will also play a part.

#### Q. What will I learn?

A. Physics is the part of science, which studies the way objects and things behave. It is made up of many laws and theories that come from experiments and discoveries. You will encounter Nuclear Particles, Astronomy, Telecommunications, Health Physics and Wave Properties.

#### Q. Do I need Mathematics at post 16?

A. No – we will teach what essential mathematical skills you need for Physics if necessary.

#### Q. What skills will I learn?

A. You will develop such skills as Analytical and Independent thought, Scientific understanding, factual knowledge and practical procedures.

#### Q. What sort of careers does Physics A level lead to?

A. There is a wide range of Physics related careers such as:-

Air Traffic Controller	Archaeologist	Architect
Astronomer	Dentist	Engineers (of all kinds)
Environmental Scientist	Engineers of all kinds	Food Scientist
Forensic Scientist	Geologist	Health and Safety Officer
HM Forces Officer	Information Scientist	Merchant Navy Officer
Metallurgist	Meteorologist	Optician
Osteopath	Patent Officer	Photographic Scientist
Radiographer	Recording Engineer	Surveyor
Technicians of all kinds	TV Cameraman	.....to name but a few!

### COURSE:

Module	Level	Course Unit
1	AS	Force & Motion
2	AS	Electrons & Photons
3	AS	Waves/Experimental Physics
4	A2	Forces, Field & Energy
5	A2	1 From: Health Physics, Materials, Particle Physics, Cosmology, Telecommunications
6	A2	Uniform Concepts

### WHY A LEVEL PHYSICS AT - ST CUTHBERT MAYNE SIXTH FORM?

**PHYSICS A LEVEL** needs enthusiasm and a commitment to 2 years steady work.

**PHYSICS A LEVEL** consists of 6 modules - Assessment will be by modular examinations taken during and at the end of the two-year course.

**PHYSICS AS LEVEL** consists of 3 modules - Assessment will be by modular examinations taken during and at the end of the first year.

**PHYSICS AS and A 2 Level** will have a practical exam that counts directly towards your final grade.

### WHAT WE EXPECT FROM YOU?

- An interest in PHYSICS – at least a grade BB at GCSE science.some ability in mathematics – at least a C grade at GCSE (It is an advantage to take maths as AS-level)
- Commitment over 2 years of study at St Cuthbert Mayne Sixth Form