IGCSE PHYSICS - 0625

Why should I choose Physics?

- In Physics you will gain confidence in a technological world.
- In Physics you will be aware of the application of science in everyday life which may be both helpful and harmful to the community and the environment.
- An excellent foundation for advanced study in pure sciences, in applied science or in sciencedependent vocational courses.

Why study Cambridge IGCSE Physics?

As well as a subject focus, the Physics syllabus enables students to:

- develop relevant attitudes, such as a concern for accuracy and precision, objectivity, integrity, enquiry, initiative and inventiveness
- develop an understanding of how scientific theories and methods have developed, and continue to develop
- develop an understanding of how groups and individuals work together
- better understand the influence and limitations placed on scientific study by society, technology and the environment
- develop understanding of the scientific skills essential for both further study and in everyday life.

Course Content:

The course content is divided into 6 main sections. The first three sections are covered in Year 10, the second three in Year 11:

- 1. General Physics (length and time, speed acceleration, velocity, mass, density, forces, work, pressure, energy and power).
- 2. Thermal Physics (simple kinetic molecular of matter, thermal properties, transfer of thermal properties).
- 3. Properties of waves, including lights and sound (general wave properties).
- 4. Electricity and magnetism (simple phenomena of magnetism and electrical quantities).
- 5. Atomic physics (radioactivity and nuclear atom).
- 6. Space Physics (Earth and solar system).

How will I learn?

A variety of learning methods are used throughout the course which include practical work, demonstration, presentations, group work, inquiry based project, interactive simulations, field research, peers and self-assessment.

How will I be assessed?

You will be assessed by two papers that test your understanding of the content covered: one multiple-choice (45 minutes and worth 30% of the total marks) and one extended written paper (75 minutes and 50% of the total); and an alternative to practical test (60 minutes and 20% of the total) that tests practical technique, data handling and analytical skills.