

IGCSE PHYSICS

EXAMINATION BOARD

Edexcel

DESCRIPTION OF THE COURSE

The simple answer to this question is that it is the study of energy and matter. This includes observing and understanding how energy and matter interact. The energy involved can take a lot of forms, for example, gravity, radiation, electricity, light, and motion. The matter studied in Physics ranges from particles to galaxies!

Apart from being extremely exciting and practical, Physics helps us to **understand how the world around us works** - from can openers, light bulbs and cell phones, to muscles, lungs and brains; from earthquakes, tsunamis and hurricanes, to quarks, DNA and black holes. Physics helps us to **organize the universe**. It deals with fundamentals, and helps us to **see the connections** between objects around us. It gives us powerful tools to help us to **express our creativity**, to see the world in new ways and then to change it.

SKILLS TAUGHT

During the Physics course you will find out answers to such questions as:

- Is time travel possible?
- Where is the universe expanding to?
- Can we solve the energy crisis?
- How is electricity made?

During the Physics course you will learn about:

- radiation and radiation poisoning;
- the difference between kinetic and potential energy;
- solar panels and how they work;
- engines, and how to make them more efficient!

You will carry out many different experiments to perfect a variety of practical skills. These will help you in any laboratory-based profession and in advanced scientific studies, as well as many other careers.

METHOD OF ASSESSMENT

Physics IGCSE

Paper 1 (Paper code: 4PH1/1P) - Theory (Core) – 2 hours	66.7%
Paper 2 (Paper code: 4PH1/2P) - Theory (Extended) – 1 hour	33.3%

CAREER OPTIONS

A Physics degree helps prepare you to do almost anything! An incredible range of careers benefits from **the problem-solving skills** of Physics, and from an understanding of the fundamentals behind science and technology that a Physics degree provides. Examples include Medicine, Pharmacy, Dentistry, Engineering, **Industrial Research and Development (R&D)**, Materials, and Geology.