National 3 Physics (Course Code: C757 73)

SCQF Level 3 (18 Credit Points)

Why study Physics?

This course is designed to increase your knowledge and understanding of the concepts of Physics and its many applications in modern society. It provides the opportunity to develop skills necessary to find solutions to scientific problems, such as experimenting, investigating and analysing, and gives a deeper insight into the structure of the subject. The course makes a valuable contribution to your general education and provides a sound basis for further study.

The skills you learn on this course are valuable for careers in medicine, energy, industry, material development, the environment and sustainability.

Career Pathways

To see what career areas this subject could lead to and the routes to get there, download and view these career pathways:

Animals, Land and Environment

Computing and ICT

Construction

Engineering

Health and Medicine

Science and Maths

Teaching and Classroom Support

Transport and Distribution

Uniformed and Security Services

What do I need to get in?

The school or college will decide on entry requirements for the course. You would normally have achieved:

- **National 2 Science in the Environment**

What will I study?

From the sources of the energy we use, to the exploration of space, Physics covers a range of applications that

affect our lives. Studying Physics allows you to gain an insight into the underlying nature of our world and its place in the universe.

The course has **three** compulsory units.

Electricity and Energy (6 SCQF credit points)

In this unit you will:

- learn about the different ways that we use electricity and energy, as well as the implications for society and the environment
- investigate the key areas of energy sources, electricity and energy transfer.

Waves and Radiation (6 SCQF credit points)

In this unit you will:

- learn about the applications of waves and radiation, as well as the implications for society and the environment
- investigate the key areas of wave properties, light, colour, optical instruments, electromagnetic radiation and sound.

Dynamics and Space (6 SCQF credit points)

In this unit you will:

- learn about the impact of dynamics and space, as well as the implications on society and the environment
- investigate the key areas of forces and the solar system.

How will I be assessed?

Your work will be assessed by your teacher or tutor on an ongoing basis throughout the course. Items of work might include:

- practical work - practical experiments
- written work - research assignments and reports
- projects
- class-based exams.

You must pass all three units to get the qualification.

Study Materials

What can I go on to next?

If you complete the course successfully, it may lead to:

- **National 4 Physics**

Further study, training or employment in:

- Animals, Land and Environment
- Computing and ICT
- Construction
- Engineering
- Health and Medicine
- Science and Mathematics
- Teaching and Classroom Support
- Transport and Distribution
- Uniformed and Security Services