

## National 2 Science in the Environment (Course Code: C766 72)

SCQF Level 2 (18 Credit Points)

### Why study Science in the Environment?

Science is an important part of our everyday lives at work, at home, in learning and in leisure. Through science, we develop a curiosity and awareness of our environment and recognise the impact science makes on ourselves, on others and on everyday life.

This course will enable you to develop the confidence and ability to tackle everyday situations involving science. You will use your knowledge of science, equipment, tools and materials to make scientifically informed choices in a range of personal and social situations.

### What do I need to get in?

The school or college will decide on the entry requirements for the course.

### What will I study?

This course aims to develop skills in: recognising the use and value of science in the environment, and how it affects everyday life; using and understanding scientific literacy in everyday contexts; and using, tools, equipment and materials safely in practical scientific and environmental activities.

The course has **two** compulsory units and **two** optional units.

#### Compulsory Units

##### Science in the Environment: Resources, Forces and Energy (6 SCQF credit points)

In this unit you will:

- develop your awareness, through practical activities, of resources and forces and how everyday objects work (eg a kettle, a calculator or a bicycle)
- through practical activities, explore the properties and use of resources, such as air, water, oil and wood
- develop your awareness of forces such as pushing and pulling and identify how a range of everyday objects work and the type of energy they use
- begin to develop their scientific literacy by exploring science through practical activities.

##### Science in the Environment: Living Things (6 SCQF credit points)

In this unit you will:

- develop an awareness and knowledge of living things
- explore the diversity of living things and the dependence between them
- develop an awareness of yourself as living being by finding out about the main parts of the human body

and factors that affect your health and wellbeing

- begin to develop your scientific literacy by exploring living things through practical activities.

**Optional Units** (choose one)

### **Science in the Environment: Managing an Environmental Area (6 SCQF credit points)**

In this unit you will:

- engage in a practical activity which encourages a sustainable lifestyle
- identify and carry out an opportunity to use a resource responsibly in a local area. Resources could include for example: food, water, energy or an environmental resource such as a nature trail or park
- continue to develop your scientific literacy by using resources responsibly in a local area.

### **Science in the Environment: Sustainable Lifestyles (6 SCQF credit points)**

In this unit you will:

- engage in a practical activity which encourages a responsible attitude towards a local environmental area
- prepare and maintain a local environmental area for living things
- explore the conditions necessary for maintaining life, continuing to develop your scientific literacy.

## **How will I be assessed?**

You will be given practical work and other tasks to do when your teacher thinks you are ready. Your finished work should be kept in a folder. This is the record you keep of what you have done and how well you are doing.

If you do not pass a task first time you will be able to try again after more practice and help or advice from your teacher.

Your teacher will tell you how you are getting on. You will get the pass marked on your certificate.

You must pass all the required 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 3 Environmental Science**

Further study, training or employment in:

- Animals, Land and Environment

- Science and Mathematics