**BIOLOGY HIGHER**

The aims of the course are to enable learners to:

* Develop and apply knowledge and understanding of Biology
* Develop an understanding of Biology’s role in scientific issues and relevant applications of Biology, including the impact these could make in society and the environment
* Develop scientific inquiry and investigative skills
* Develop scientific analytical thinking skills, including scientific evaluation, in a Biology context
* Develop the use of technology, equipment and materials, safely, in practical scientific activities, including using risk assessments
* Develop planning skills
* Develop problem solving skills in a Biology context
* Use and understand scientific literacy to communicate ideas and issues and to make scientifically informed choices
* Develop the knowledge and skills for more advanced learning in Biology
* Develop skills of independent working

**CONTENT**

**DNA and the Genome**

In this Unit, learners will develop knowledge through study of DNA and the genome.

**Metabolism and Survival**

In this Unit, learners will develop knowledge by investigating the central metabolic pathways of ATP synthesis by respiration and how control of the pathways is essential to cell survival.

**Sustainability and Interdependence**

In this Unit, learners will develop knowledge by investigating how humans depend on sufficient and sustainable food production from a narrow range of crop and livestock species, focusing on photosynthesis in plants.

**INTERNAL ASSESSMENT**

To pass the Biology course, learners must pass all of the required Units. This includes a Unit Assessment and a practical write up.

**EXTERNAL ASSESSMENT**

Learners must sit an external exam and complete a practical investigation. Both of these elements are externally marked.

**HOMEWORK**

About 2 hours per week to go over notes, answer questions and prepare for tests.

**ENTRY REQUIREMENTS**

Pupils should have a grade A-C pass at National 5 level Biology, however, pupils with a C level pass may struggle with this course.