**PHYSICS HIGHER**

The main aims of this Course are for learners to:

* Develop and apply knowledge and understanding of Physics
* Develop an understanding of the role of Physics in scientific issues and relevant applications of Physics, 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 Physics context
* Develop the use of technology, equipment and materials, safely, in practical scientific activities
* Develop planning skills
* Develop problem solving skills in a Physics 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 Physics
* Develop skills of independent working

**CONTENT**

**Our Dynamic Universe**

The general aim of this Unit is to develop skills of scientific inquiry, investigation and analytical thinking, along with knowledge and understanding of our dynamic universe.

**Particles and Waves**

The general aim of this Unit is to develop skills of scientific inquiry, investigation and analytical thinking, along with knowledge and understanding of particles and waves.

**Electricity**

The general aim of this Unit is to develop skills of scientific inquiry, investigation and analytical thinking, along with knowledge and understanding of electricity.

**Researching Physics**

The general aim of this Unit is to develop skills relevant to undertaking research in Physics. Learners will collect and synthesize information from different sources, plan and undertake a practical investigation, analyse results and communicate related to their findings.

**INTERNAL ASSESSMENT**

To pass the Physics 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 90 minutes 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 Physics, however, pupils with a C level pass may struggle with this course.