

**Overview:**

The Applied Science course is ideal for learners who have a general interest in Science but do not necessarily want to specialise in a particular Science discipline. This is a vocational course that covers scientific skills and theory from Biology, Chemistry and Physics and is the equivalent of one A-level. There is an emphasis on practical skills which are highly valued by both universities and employers such as using scientific equipment accurately and with precision and considering safety and risk assessments in the laboratory. This course usually takes place alongside other level three qualifications and therefore would blend well with other A-level or BTEC courses.

Expectations:

To be successful on this course, students will need to have both good organisational skills and good attendance to complete the guided learning hours. This course will be assessed in two ways:

- Formal written exam at the end of Year 13.
- Completion of set tasks – learners take the assessment during a defined window and demonstrate understanding through completion of a vocational task.

Extra-Curricular Activities / Independent Learning Opportunities:

This course has two mandatory units: Principals and Applications of Science 1 and Practical Scientific Procedures and Techniques. In addition to this, learners must choose optional units to learn, which could include amongst others Physiology of Human Body Systems, Biological Molecules and Metabolic Pathways, Genetics and Genetic Engineering, Astronomy and Space Science, Practical Chemical Analysis, Forensic Evidence, Collection and Analysis, Cryogenics and Vacuum Technology and Forensic Investigations.

In addition to learning in the classroom, as part of this course learners should seek to spend some time working in a professional laboratory in order to gain some work experience.

Alongside developing scientific skills, this course will also focus on developing generic skills valued by employers and universities such as research, extended writing, keeping a portfolio of assignments, meeting deadlines, and developing interpersonal and thinking skills.

Career Pathways:

This course supports progression to higher education, to an apprenticeship or entry level employment in the science sector. Through the combination of practical skills and theory work, this course is ideal preparation for students interested in areas such as biomedical science, biochemistry, healthcare, social care, working with animals, laboratory technician, radiography, pharmacy or nursing.