



Level 3 Extended Certificate in Applied Science

Key Contacts: Mr J Shellard (Course Leader)

Exam Board: Level 3 Extended Certificate in Applied Science, AQA

Overview of the course:

This course will appeal to students who:

- are interested in how science is used in the world of work;
- enjoy researching by themselves into scientific matters;
- wish to pursue careers, which have a technical aspect;
- can rise to the challenge of organising their own time and projects; and
- prefer learning through applications of science.

Level 3 Extended Certificate in Applied Science takes up the time of **one** option column. In Year 12, you will study three units to complete the Certificate in Applied Science. In Year 13, you will study a further three units to complete the Extended Certificate in Applied Science.

Applied Science is an excellent complementary course to study alongside several A Level courses.

What will you study?

The Year 12 modules:

- **Key concepts in Science** - This is a theoretical unit in which learners develop their knowledge and understanding of key concepts in science and how they are applied in the medical, healthcare, food, environmental, chemical, pharmaceutical, material and automotive industries.
- **Applied experimental techniques** - All experimental techniques are related to their application in research and development for new pharmaceutical products, the quality control of existing products and the investigation of new materials, ecological investigations, consideration of the most suitable material to use for a specific application.
- **Science in the modern world** - This unit will enable learners to develop their analytical, evaluative and critical thinking skills. These are important skills for scientists working in research, product development and scientific testing.

The Year 13 modules:

- **The Human body**
- Investigating Science

And one of the following options:

- Microbiology
- Medical Physics
- Organic Chemistry

Assessment

The units in **bold** are exam assessed. These account for 50% of the final grade. The remaining units are assessed on a portfolio of assignments, which you will have to build up during the course and will make up the remaining 50%.

Possible career path?

A wide range of employers and universities value the broad science basis of Applied Science; you will study the applications of Biology, Chemistry and Physics in varied organisations. They also value the ability to study independently, which you will develop through the assignments and project work. The transferable skills you will learn in Applied Science can open up a range of career opportunities.

Examples of career opportunities are:

- Biotechnology, chemical analysis or food technology
- Health and Fitness related careers, or nursing
- Environmental monitoring and management
- Businesses with scientific or technical production/control systems
- Engineering training
- Scientific or medical technician

Level 3 courses are Graded Pass, Merit or Distinction. Since this is a Level 3 Extended Certificate course UCAS points are awarded that count towards acceptance onto Higher Education courses.

Entry requirements

Ideally five GCSEs Grade 9-5, including English and Mathematics.