



DRAYTON MANOR HIGH SCHOOL

VOCATIONAL COURSE 2020-2022

Applied General in Science

Specification Pearson/BTEC

Entry Requirements

The qualification builds on the knowledge, understanding and process skills that you will have developed in GCSE Science. Students must have achieved at least Grade 4 in Core and Additional Science GCSE.

You will learn theory and develop relevant practical skills throughout the course.

What will I learn on this course?

Level 3 BTEC Applied Science aims for students to

- develop essential knowledge and understanding in science
- develop the skills needed for the use of this knowledge and understanding in new and changing situations where appropriate
- develop an understanding of the link between theory and experiment
- appreciate how science has developed and is used in present day society
- show how science links with social, philosophical, economic, industrial and environmental matters
- understand how mathematical expressions relate to biological, chemical and physical principles
- study how scientific models develop
- understand scientific principles associated with the application of Biology, Chemistry and Physics
- develop experimental and practical techniques associated with Applied Science
- study the roles and skills of scientists, and the public and media perception of science
- develop experimental techniques and undertake a scientific investigation

What kind of student is this qualification suitable for?

Level 3 Applied Science is suitable for students who

- have a real interest in and enjoy all sciences
- want to complete practical tasks and assessments
- enjoy solving problems
- enjoy carrying out investigations by the application of imaginative, logical thinking
- want to use science to support other qualifications or progress onto further studies or employment
- are taking additional level 3 qualifications in other subjects and/or Mathematics or other relevant courses such as Design and Technology and want to take another course that will support their studies

Examples of Key Skills Development in Applied Science

Communication

- taking part in discussions about investigations or issues
- preparing written documents for your practical work

- researching from books, the Internet and journals

Application of numeracy

- planning to collect results from your experiments and investigations and analysing and presenting them in a suitable way
- carrying out calculations on the data collected in experiments and investigations
- Interpreting the results from experiments and seeing how this relates to your plan

Information technology

- internet and academic journal based research
- use of Excel for data analysis of practical data
- using word processing software to present written reports and prepare presentations.

Working with others

- discussing in a group to plan a task such as a plan for an investigation or a presentation to the group

Improving own learning and performance

- setting targets with a timetable to improve your learning or skills
- increasing independent learning skills using the resources at your disposal
- seeking support and using different ways of learning
- monitoring the marks awarded for your work, setting appropriate targets and taking action to improve them

Problem solving

- planning practical investigations into some aspect of science to answer a question
- working out different ways to solve/investigate a problem
- carrying out one of your plans and assessing suitability for the problem
- evaluation of the plan

What could I go on to do at the end of my course?

Applied Science leads on to a wide range of courses and careers. You could go on to use your knowledge to support other qualifications or progress onto further studies or employment. This could be:

- Complete an Extended Certificate in Applied Science from a Higher National programme (HNC & HND) to degree level;
- Science-related higher education courses, including Biomedical, Forensic, Sports Science, as well as Nursing

The Applied Science Certificate can be used to contribute towards an extended certificate and a diploma which may support a wide range of Higher Education courses and employment.