

Subject: Applied Science, Alternative Academic Qualification (AAQ) BTEC National Extended Cert	
Examination Board: Pearson	Qualification number: 610/3965/2
Course Content:	
Principles and Applications of Biology	External assessment (60) This unit explores the key components of biological science. It will examine cells and tissues, their varied structures and functions and the biological components that interact with their existence.
Principles and Applications of Chemistry	External assessment (60) Students will explore some of the fundamental concepts which underpin the chemistry and chemical reactions of the world around them.
Principles and Applications of Physics	External assessment (60) Students will explore the use of practical and mathematical skills in the study of waves, motion and electricity.
Practical Scientific Procedures and Techniques	External assessment (60) Students will be introduced to quantitative laboratory techniques, including chromatography, colorimetry and laboratory safety, which are relevant to the scientific laboratory environments.
Science Investigation Skills	Internal assessment (90) This unit enables students to gain an understanding and the skills required to undertake an investigative project.
Contemporary Issues in Science	Internal assessment (90) This unit will explore contemporary science issues and their impact on the world we live in. It will develop the students' skills of analysis and interpretation across a broad range of scientific issues while exploring how they are reported in the media and in publications.
<p>Knowledge and Skills</p> <p>Fundamental scientific principles and applied knowledge relating to biology, chemistry and physics</p> <ul style="list-style-type: none"> • Laboratory techniques, including health and safety assessment, and associated professional practice. • Problem solving. Students will develop the following knowledge and skills from the optional units. • Scientific Research skills including researching and planning methodologies, primary data collection and analysis, drawing justified conclusions. • Secondary research skills including collecting information from a range of sources, its evaluation and interpretation, and its use to draw reasoned conclusions. • Transferable skills such as critical thinking, taking personal responsibility and written communications. <p>Students develop the ability to practically apply scientific concepts, which is beneficial to the analytical approach of related degrees. Critical thinking and independent learning help students to be better prepared for the self-directed learning approach used in higher education and become more open-minded to learning. Research and extended writing skills with the other skills, creates a good foundation for academic success.</p>	
Expected GCSE qualifications: We recommend students have achieved a 4.5 GCSE grade average across all their GCSEs with Grade 5 in Science or across Biology, Chemistry and Physics.	