St Benedict's Sixth Form

Pearson BTEC Nationals Applied Science (AAQ) (Extended Certificate – 1 A Level)

Course Description

The BTEC Level 3 National Diploma in Applied Science is a practical, career-focused qualification that combines scientific theory with hands-on laboratory experience. Students study key areas of biology, chemistry and physics, developing essential skills in experimental techniques, data analysis, problem-solving and scientific investigation. Through a combination of coursework, practical assessments and examinations, students gain the knowledge and confidence to apply science to real-world situations. The qualification provides a strong foundation for progression to university, higher education or careers in scientific and laboratory-based industries.

Skills Attained

Students will develop the following knowledge and skills:

- Fundamental scientific principles and applied knowledge relating to biology, chemistry and physics
- Problem solving
- Laboratory techniques, including health and safety assessment, and associated professional practice
- 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.

Assessment

Mandatory units – students complete all units.

Unit number	Unit title	GLH	Type	How assessed
1	Principles and Applications of Biology	60	**Mandatory**	External
2	Principles and Applications of Chemistry	60	**Mandatory**	External
3	Principles and Applications of Physics	60	**Mandatory**	External
4	Practical Scientific Procedures and Techniques	90	**Mandatory**	Internal

Optional units – students complete one unit.

Unit number	Unit title	GLH	Type	How assessed
5	Science Investigation Skills	90	**Optional**	Internal
6	Contemporary issues in Science	90	**Optional**	Internal

Progression

This qualification can lead to progression to the following degrees:

- BSc (Hons) Computer Science
- BSc (Hons) Science with Foundation Year
- BSc (Hons) Health and Social Care
- BA (Hons) Education and Primary Studies



Grade 5 in a GCSE Science;
Grade 5 in GCSE Mathematics;
Grade 4 in GCSE English (Language or Literature)

Exam Board: Pearson Edexcel

kimetcal@sbsj.co.uk