

## Type of course – Applied General

### Course Overview

The new BTEC course introduced by Pearson is an exciting blend of coursework, practical work and one A level standard exam. Within working towards the three different aspects of the course students will learn exciting topics such as waves and the particle nature of light, the Bohr model and cell biology. The course is specifically designed for students who are interested in learning about the sector alongside other fields of study, with a view to progressing to a wide range of higher education courses, not necessarily in applied science.

### Course Content

#### Unit 1: Principles and Applications of Science 1 (Examined unit/ External)

##### **Chemistry**

- A1 Structure and bonding in applications in science.
- A2 Production and uses of substances in relation to properties.

##### **Biology**

- B1 Cell structure and function
- B2 Cell specialization
- B3 Tissue structure and friction

##### **Physics**

- C1 Working with waves
- C2 Waves in communication
- C3 Use of electromagnetic waves in communication

#### Unit 2: Practical Scientific Procedures and Techniques (Assignment/Internal)

#### Unit 3: Science Investigation Skills (Practical Tasks/Internal)

Optional Unit: (Assignment/Internally) This will be decided at the end of the first year.

## Assessment

#### Unit 1: Principles and Applications of Science

- Written exam set and marked by Pearson
- 1 hour 30 minutes
- 90 marks
- January and May/June

#### Unit 2: Practical Scientific Procedures and Techniques.

- Assignment Brief
- Internally marked
- Standard Verification

#### Unit 3: Science Investigation Skills

- A task set and marked by Pearson and completed under supervised conditions.
- The supervised assessment is arranged over two sessions in a three week period timetabled by Pearson.
- The supervised assessment sessions are 3 hours for part A and 1.5 hours for part B
- Practical investigation and written submission
- 60 marks
- December/January and May/June

## Careers and Opportunities for Further Study

- Biomedical Sciences
- Business
- Teaching
- Agriculture
- Forensics
- Scientific research
- Civil service
- Foundation Science leading on to Bachelor degrees

## Entry Requirements

Science grade 5 Maths grade 5 and English language grade 5