

# The Osborne Sixth Form

## Applied Science



### BTEC (Diploma)

Specification: [https://qualifications.pearson.com/content/dam/pdf/BTEC-Nationals/Applied-Science/2016/specification-and-sample-assessments/9781446938188\\_BTECNat\\_AppSci\\_Dip\\_Spec.pdf](https://qualifications.pearson.com/content/dam/pdf/BTEC-Nationals/Applied-Science/2016/specification-and-sample-assessments/9781446938188_BTECNat_AppSci_Dip_Spec.pdf)

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### Why study Applied Science?

The course contains elements of Biology, Chemistry and Physics. This will equip you with a broad knowledge of Science at Level 3, allowing you to progress further along the scientific route without having to study the separate sciences in isolation. Students also appreciate the mixture of assessment methods which involve standard exams, coursework components and assessed practicals, allowing them to achieve parts of their qualification at different times throughout the year. The Diploma is equivalent to two A-levels in terms of work so you will be required to select one or two other subjects to study alongside this course. Potential routes following on from this course include studying at university level in subjects such as Biomedical Science, Nursing, Biology, Chemistry or Veterinary Nursing, as well as potential direct employment in a scientific field.

### What skills will I develop?

- Teamwork
- Technical ability
- Problem solving
- Organisation
- Numeracy
- Communication
- Attention to detail

### What will I study?

The method of assessment varies between units, some require an exam or a task marked by the exam board whereas others are coursework based and assessed by your teachers.

#### Mandatory units:

- Principles & Applications of Science I (external exam)
- Practical Scientific procedures and techniques (coursework)

- Science investigation skills (external task)
- Laboratory techniques and their application (coursework)
- Principles and Applications of Science II (external exam)
- Investigative project (coursework)

#### Possible optional Units:

(two from these, all coursework):

- Physiology of Human Body Systems
- Human Regulation and Reproduction
- Genetics and Genetic Engineering
- Biological Molecules & Metabolic Pathways

### How will I be assessed?

Approximately 60% of the assessment will be based on coursework completed throughout the year, focusing on 5 different topic areas. The further 40% will be based on two external exams covering all three science disciplines, and one assessed practical which could be based on Biology, Chemistry or Physics.

### Where might it lead?

Applied Science students have progress to HE courses such as Chemistry with Forensics, Forensic Science, Pharmaceutical Management, Teaching, Nursing, Chemistry, Biology, Radiography and Biomedical Sciences. There are a wide variety of careers available for you to explore such as Medical Physicist, Medical Laboratory Assistant or Chemist.

### What are the entry requirements?

Grade 4 in Combined Science or Biology, Chemistry or Physics.