

# Guilsborough Academy Sixth Form

## KS5 CURRICULUM

**Course Title:** BTEC Level 3 National Extended Certificate in Applied Science

**Examination Board:** EDEXCEL



**Entry Requirements:** 5 Grade C at GCSE

**Assessment:** Equivalent in size to one A Level.  
4 units of which 3 are mandatory and 2 are external.  
Mandatory content (83%). External assessment (58%)

### Is This Course Right For Me?

The BTEC Subsidiary Diploma in Applied Science is a practical, work related course, for those who enjoy Science, and have a broad interest in the Science of the world, in which we live. This is an exciting opportunity to study all Science areas without the prospect of a final examination. Learning methods include completing assignments, case studies and projects which are based on realistic workplace situations. You will develop a wide range of skills in the biological, chemical and physical science applications as well as learning about the legislation that relates to the Science Industry. The BTEC course also includes a full range of essential skills elements in Science, Maths and English.

This course is an excellent opportunity for students that excel at independent study, but foresee the proposition of Science A-levels challenging or the course requirements an area of concern. Through the unit-focused approach to teaching and learning this is a perfect alternative to A-Levels for those who wish to explore the field of Science through progression. The work covered is equivalent to 1 A level and provides a direct route into a career or Higher Education.

### Unit Contents:

#### Mandatory Units:

Principles and Applications of Science  
Practical Scientific Procedures and Techniques  
Science Investigation Skills

#### Optional Units

Physiology of Human Body Systems  
Human Regulation and Reproduction  
Biological Molecules and Metabolic Pathways  
Genetics and Genetic Engineering  
Diseases and Infections  
Applications of Inorganic Chemistry  
Applications of Organic Chemistry  
Electrical Circuits and their Application

### Progression:

This BTEC course naturally develops the independent studying that's required at degree level, due to the portfolio-based nature of BTEC course. It also leads into careers such as:

A medical physics technician supporting the use of X-ray and other imaging/scanning equipment;

Working in a research laboratory in the development of new drugs;

Working with the forensic science service;

Working for a scientific magazine / journal linked with editing and proof-reading.

### Example of university courses and grades required

- **University of Aberdeen** – BSc (Hons) Biomedical Sciences (Developmental Biology) 360 points – Based on 3 Distinctions
- **University of Liverpool** - BSc (Hons) Physics - A\*A in Maths and Physics A Levels, plus Distinction in BTEC Subsidiary Diploma
- **University of Sussex** - BSc (Hons) Biochemistry . 1 pass, 2 merits – 320 points

### Further Information Contact:

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