

# BTEC Level 3 Diploma in Applied Science

Madeley Academy

## WHY APPLIED SCIENCE

The opportunities for students of Science, on completion of full-time education, are enormous. There are many possible careers within the scientific world and qualifications in Science subjects are acceptable as an entry into many other careers. Science students at Madeley Academy are currently preparing to move into Higher Education Courses and careers in the following fields:

- Electronic Engineering
- Pharmacy
- Mechanical Engineering
- Nursing
- Environmental Chemistry
- Biochemical Science
- Forensic Science
- Computing
- Medicine

The Science courses offered at Madeley Academy are designed to provide academic and vocational experiences. They will prepare students for their choice of career in both the world of work and Higher Education.

## SPECIFIC ENTRY REQUIREMENTS

Students must achieve a minimum of 5 GCSEs grade A\* - C including English, Maths and 2 in Science

## COURSE DETAILS

You will complete **six mandatory units:**

### Fundamentals of Science

You will develop the practical techniques used by laboratory technicians. You will investigate the quantities necessary in chemical reactions, the structure and function of cells, the calorific value of fuels and develop skills in communicating scientific information.

### Course content example:

Working in the Science Industry, Scientific Investigations, Scientific Practical Techniques, Perceptions of Science, Using Mathematical Tools for Science, Statistics, Physiology of Human Body, Biochemistry, Biochemical, Energy, Microbiological, Electrical Circuits, Genetics, Medical Physics Techniques, Chemical Laboratory Techniques, Principles of Plant and Soil Science, Industrial Applications of Chemical Reactions, Chemical Periodicity, Organic Chemistry, Geology of Natural Resources, Diseases and Infections & Astronomy



For more information please visit our website. Telephone: (01952) 527700 or Email: [rfairless@madeleyacademy.com](mailto:rfairless@madeleyacademy.com)