



APPLIED SCIENCE

General Certificate of Education Single and Double Award

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.

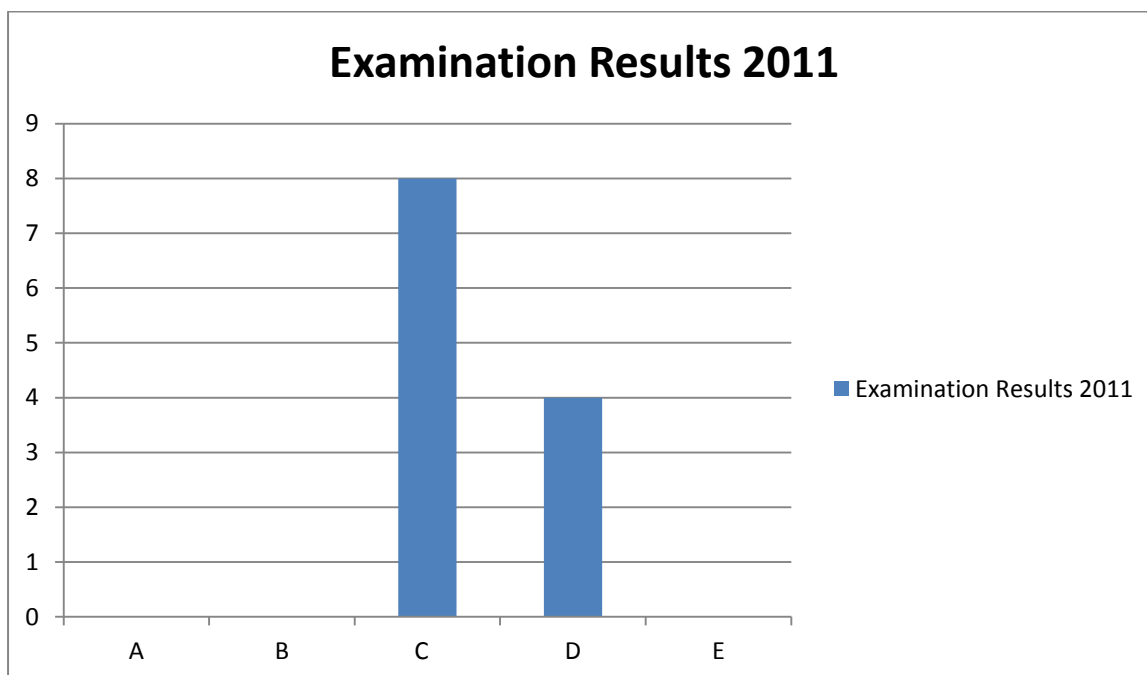
Science students at Thomas Telford School are currently preparing to move into Higher Education Courses and careers in the following fields:

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

The Science courses offered at Thomas Telford School 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

- 4 GCSEs (Grades A* - C) of which 2 must be in Science
- Satisfactory level of competence in Mathematics and English



COURSE DETAILS

AQA SINGLE AWARD (8776) You will study six Units as follows:

Investigating Science at Work (*Portfolio unit Internally assessed*)

In this unit you will learn how science is used in organisations. You will learn about how health and safety regulations are used in the workplace and how the organisation impacts on the local community.

Energy Transfer Systems (*Examined unit Externally assessed*)

In this unit you will study the structure and function of the circulatory and respiratory systems. You will learn about the imaging methods used in medicine for monitoring and diagnosis. You will also learn about the applications of energy transfer.

Finding out about Substances (*Portfolio unit Internally assessed*)

In this unit you will learn how to obtain and prepare samples using a wide range of chemical techniques. You will learn about the energy changes that take place when substances react.

Scientific Investigation (*Portfolio unit Internally assessed*)

You will learn how to plan and carry out an investigation. You will learn how to record, process, evaluate and draw conclusions from the investigation.



Medical Physics (*Examined unit Externally assessed*)

You will learn about a wide range of diagnostic techniques in medicine including X-rays, ultrasound, fibre optics and magnetic resonance imaging. You will also study how radioisotopes, ultrasound and light are used in therapy.

Sports Science (*Portfolio unit Internally assessed*)

You will learn about health and fitness and how to treat and prevent sporting injuries and conditions. You will also study occupations involving the application of science to sport.