



# Science

## Why study with us?

- Our Science department provides students with the opportunity to gain the practical skills they need to provide the foundation for their careers.
- All our staff have relevant degrees and are specialists in their respective fields. Lecturers draw on their own experiences and also keep in contact with industry professionals to ensure learners are taught the skills they need out in the real world.
- Realistic workplace environments are created in both laboratory sessions and fieldwork, with Forensic Science classes following the procedures used in industry.
- We have excellent relations with many local employers. One of these is Eurofins who supply testing and support services to the pharmaceutical, food, environmental and consumer products industries. They have provided us with science Apprenticeships and some students have then progressed within the company.
- Join in our success – this year our A Level Chemistry students achieved seven grade As and 75% of our Level 3 students go on to university.
- Go on educational trips to the various science museums in London, visit local universities to carry out practical work, and our biologists go to Twycross Zoo. Forensic Science students also attend the public galleries of law courts to observe trials.
- Benefit from the experience of guest speakers such as specialist police officers, a fire officer and even a pyrotechnics expert, who deal with specific aspects of crime incidents.

### **BTEC Diploma in Applied Science Level 2**

1 year • Paget Road

#### **Entry requirements**

Four GCSEs at grade D - must include some science (either a BTEC or GCSE core science).

This course provides hands-on practical aspects of science with the required knowledge to understand the science involved in everyday situations, and for work purposes. The course is equivalent to four GCSEs in science and is offered with GCSE in English and Maths. It is assessed through continuous coursework so no exams! The lectures combine practical activities with related theory in science. Visits to industries that use science are included: this helps you to see how science fits into the world of work and further study in science.

#### **Future options**

Successful completion of the course allows you to progress onto the BTEC Level 3 Extended Diploma in Medical Science or Forensic Science - these are equivalent to three A Levels.

### **Level 3 Extended Diploma in Applied Science (Forensic Science)**

2 years • Paget Road

#### **Entry requirements**

Five GCSEs at grade C or above including English, Maths and Double Science.

Forensic Science is the use of scientific methods to produce supporting evidence and solve problems that may arise in various situations in criminal or civil law courts. Examples of the units studied include Criminology, Fundamentals of Science, Forensic Evidence Collection and Analysis, Scientific Investigation and Perceptions of Science. The course is structured to give you hands-on practical experience in using science and applying it to the study of Forensic Science, emphasising the role of science in the forensic industry.

#### **Future options**

Degree in Forensic Science or a related chemical or biological degree.

### **Level 3 Extended Diploma in Applied Science (Medical Science)**

2 years • Paget Road

#### **Entry requirements**

Minimum five GCSEs at grade C or above, including Maths, English Language and Science.

Medical Science involves the use of scientific methods in diagnosis and treatment across a variety of medical situations. Medical scientists are also involved in the research and development of new techniques and treatments. Units include Physiology of Human Body Systems, Physiology of Human Regulation and Reproduction, Biomedical Science Techniques, Biochemical Techniques, Microbiological Techniques and Genetics and Genetic Engineering. The course is structured to give you hands-on practical experience in using science and applying it to medical issues.

#### **Future options**

Courses: university degree in biomedical science. Employment: Medical Laboratory Technician or Assistant Scientific Officer.

**GCSEs** in Biology (AQA); Chemistry (AQA); Physics (AQA); Maths (Edexcel) and Statistics.  
**A-levels** in Human Biology, Biology, Chemistry, Physics, Maths and Statistics.

*For details of GCSEs and A Levels see the Citysixth section of this prospectus – page 46*



*I did my GCSEs at school, but when it came to my A Levels all they could offer me was science and I wanted to do something more specific, so I decided to come to college.*



**Chloe Spruce**  
BTEC National Diploma in Applied Science (Forensics).

Chloe hopes to become a Scenes of Crime Officer.

