

Cambridge Technical in Applied Science



Exam Board: OCR

Entry requirements: GCSE Grades: 5 in Science, 5 in Maths and 4 in English

Intent

The Level 3 Cambridge Technicals in Applied Science have been developed to prepare students for the challenges they'll face in Higher Education or employment. They focus on the requirements that today's universities, professional vocational colleges and employers demand.

Structure

Using centre assessed units with practical and or project-based assessment opportunities; alongside examined units on Science Fundamentals, Laboratory Techniques and Scientific Analysis and Reporting, means the course has a range of learning and assessment opportunities that deepen and extend GCSE Science into a broad KS5 science course, that has a more supportive assessment route over it's two years, compared to traditional A-level qualification.

Implementation

Content & Sequencing

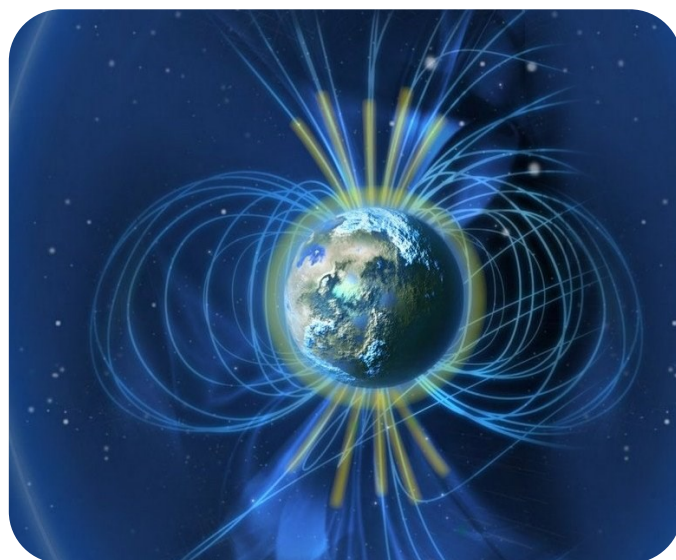
Students Study

- **Unit 1 - Science Fundamentals** - A thorough understanding of scientific principles and practices across Biology Chemistry and Physics
- **Unit 2 - Laboratory Techniques** - This is a general skills unit and covers generic skills required by technicians working in any kind of scientific laboratory
- **Unit 6 – Control of Hazards in the Lab** – Student learn a range of methods and techniques to assess and minimise risks.
- **Unit 18 – Microbiology** – Students learn about both the knowledge and laboratory skills required for working within microbiology.
- **Unit 21 – Product Testing Techniques** – Students learn how a range of products are scientifically tested and compared.

Assessment Methods

Students sit a 2 hour paper on units 1 and 2 and are able to resit the exam should that be required to improve their results.

In addition, students complete assignments against a set of clear criteria that are then assessed and moderated internally for all units.



Impact

Students will gain a fundamental understanding across the sciences of typical A-level content and laboratory techniques, whilst being assessed in a route that does not rely solely on examinations.

Onward Progression

Cambridge Technicals provide a strong base for progression to university, apprenticeships or work and are recognised for UCAS tariff points for the majority of courses though it is always recommended to check course entry requirements.

Further information contact

Mr M. McKee - Director of Studies: Science
mmckee@shoreham-academy.org

