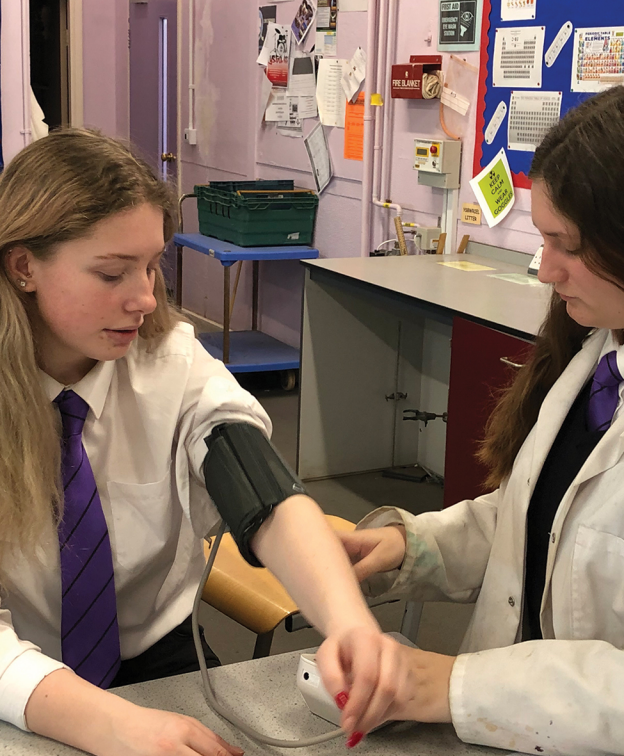




Medical Science

Why study Medical Science?

Medical Science is the science of dealing with the maintenance of health and the prevention and treatment of diseases. This qualification is for learners who are interested in careers related to healthcare and medical research. Medical scientists are at the forefront of healthcare services, as they are vital in the diagnosis of disease, determining the effectiveness of treatments and searching for new cures.

The main purpose of the qualification is to provide learners with the knowledge, understanding and skills in key scientific principles to support progress to higher education or employment in areas of Medical science, such as job roles in physiological sciences or clinical laboratory services.

Entry requirements

C grade at GCSE in double science or triple science Biology/Chemistry.

Course details and assessment format

Year 12

UNIT 1 – Human health & disease [25%] (Examination – 2 hours, 90 marks)

UNIT 2 – Physiological measurement techniques [12.5%]

(Internally assessed task)

The students will perform a range of medical tests on patients, and then interpret the results in order to write a report on their health.

UNIT 3 – Medical Science research methods [12.5%] (Internally assessed task)

Students will use their knowledge and understanding of research methods to conduct their own research. They will process the data they have collected and write a report.

A Level

UNIT 4 – Medicines and treatment of disease [25%] (Internally assessed task)

The task will enable learners to provide information to a range of audiences on how medicines work, to bring about effective treatment of diseases and disorders.

UNIT 5 – Clinical laboratory techniques [12.5%] (Externally assessed task)

This task is designed to help the student to understand how biomedical scientists investigate the function of body systems by undertaking laboratory-based measurements.

UNIT 6 – Medical case study [12.5%]

(Externally assessed written paper – 1 ½ hours, 75 marks)

This unit is the overall synoptic unit for the Diploma qualification. It provides the opportunity for candidates to demonstrate their understanding of the connections between the other five units of this Medical Science qualification.

Skills which are developed and possible progression

This qualification equips learners with scientific knowledge and understanding, as well as practical skills that would support progression to a range of job roles within health care. Job roles such as those within the areas of life sciences, i.e. laboratory work and scientific tests to support the diagnosis and treatment of disease. Alternatively, there would also be opportunities to progress to job roles within the physiological sciences, working directly with patients and working in neurophysiology.

Common career choices for medical science students are biomedical science, medical science, life sciences, physiology, medical Research, nursing, laboratory technician.

"Medical Science has allowed me to understand the mechanisms behind human anatomy and the effects that diseases can have on the body and how to effectively combat them."
George Yardley

