



## Biology

### Room: L2

#### What the Students Say

*'It's challenging but rewarding when you get it right.'* *'It's really good when everything comes together and you feel like you really get it.'*

#### What Is This Course About?

The course is AQA A Level Biology (7402). This A Level Biology course is designed to encourage you to develop further your enthusiasm for Biology and develop practical skills alongside understanding concepts and principles related to Biology. This course will address a variety of topics.

#### What Will I Learn?

A Level Year 1 is studied in Year 12. Topics studied include the cardiovascular, pulmonary, digestive and immune systems as well as the structure of cells and how substances are able to move in and out of them, the cell cycle and cellular organisation, exchange and transport in plants and animals and biodiversity. In Year 13, students complete the course with A Level Year 2. Students look at factors affecting populations, which involves some ecology work, energy and ecosystems, nutrient cycles and succession. They also study the biochemistry of photosynthesis and respiration, patterns of inheritance, the nervous, endocrine and excretory system, muscle contraction, homeostasis, genetic control of proteins and gene expression and DNA technology.

#### Where Will It Take Me?

A wide of variety of jobs require A Levels and a Science A Level is well respected by employers. Science technicians would find having A Level Biology an advantage. Many of our students go on to study a Biology related degree course and gain a Bachelor of Science with Honours (BSc Hons). For example: Biology, Biological Sciences, Biomedical Sciences, Sports Science, Physiology, Pharmacology, Biochemistry, Nutrition, Genetics, Forensic Science, Marine Biology, Oceanography, Ecology, Applied Science, Neuroscience, Zoology and many more. Some students may then choose to carry on their studies and obtain a Master's degree or PhD in a related field. Other students may use their A Level Biology to help gain a place on a career-related degree course such as Medicine, Veterinary Medicine, Physiotherapy, Paramedic Science, Nursing, Dentistry, Chiropractic, Pathology, Radiology, Ophthalmology and many more.

#### What Other Opportunities Exist Outside of Class?

Studland Dune system (to study Succession), Southampton (to study Biodiversity) and Science Live are some of the opportunities that may be available. Students may be offered the opportunity to apply for a Nuffield research placement in order to take part in real scientific research and complete a written report. Students may also have the opportunity to attend a Biological Sciences session at Southampton University.