

## BIOLOGY (OCR: A-Level H420)

### Why study A-Level Biology?

Biology is the study of living things. In the 21st century, in almost every area of our lives, the biological sciences are changing the present and shaping the future. The greatest challenges in health, genetics, medicine, agriculture, conservation, climate change and the environment can only be met with a sound grasp of Biology. A huge variety of careers, in these areas of knowledge, become open to anyone with good qualifications in Biology. Other careers include veterinary science, medicine, nursing, forensic science, psychology, horticulture, sports physiology, pharmacology, ophthalmology, dentistry and physiotherapy. A qualification in Biology is a good admission to courses in law, journalism, design, art and numerous other disciplines.

### What you need

- GCSE Core and Additional Science (or IGCSE Sciences) or the three separate GCSE sciences, ideally at grade 7, 8 or 9
- A genuine enthusiasm for Biology
- A good command of written English with sound skills in Mathematics and Chemistry
- An enjoyment of practical work in the laboratory
- A fascination with the natural world and how it works
- A willingness to work hard with motivation and self-discipline

### A-Level topics include

- Foundation topics such as Cell Structure, Biological Molecules, Enzymes, Cell Division
- Exchange and Transport
- Biodiversity, Evolution and Disease
- Communications, Homeostasis and Energy
- Genetics, Evolution and Ecosystems

*There will also be development of practical skills and students will work towards a separate Practical Endorsement Award throughout the A-Level course.*

Just as the late 20th century was an era of extraordinary advances in computer technology, so the 21st century will witness developments in biotechnology and genetics that are hard to imagine now and that are likely to affect all our lives.



#### WHERE NEXT?

**Gigi Leung**

Biomedical Science at King's College London

Studied Biology, Chemistry, Mathematics and Psychology