

Biology A Level



Exam Board: AQA

Why A Level Biology?

Biology is concerned with understanding the wonders of life, from exploring the complex and diverse relationships within ecosystems to how chemicals create and maintain cells. Investigating life has led to a vast array of discoveries, deepening our insights and leading to opportunities to explore and potentially solve many problems facing our biosphere and humanity.

Thinking and Life Skills you will develop:

- Conveying opinions in a balanced and informed way, using precision in use of language
- Understanding and applying statistical analyses, using them in evaluating data
- Applying accuracy and attention to detail mathematically and in written word
- Developing practical scientific skills involving independent and teamwork
- Using logic and creativity in deduction with the ability to interpret, spot trends, make links, evaluate and predict
- Working to deadlines with the ability to self-manage and motivate
- Communicating in a concise and detailed manner according to scientifically accepted conventions.

Entry requirements:

Minimum grade 6:6 in GCSE Combined Science, or if separate sciences - Biology 6. English 6 and Maths 6

What will you study?

Biology covers a variety of life, populations and environment (which links well with part of the Geography syllabus), The wonders of DNA and genetics and how this impacts on the species and the environment around us, disease, control in cells and organisms (including studying various organ systems such as respiratory, circulatory and nervous), genetics, homeostasis and energy transfer (including a detailed understanding of respiration and photosynthesis).

University degrees that require or often prefer Biology include:

Biology, Human Biology, Biochemistry, Dentistry, Medicine, Veterinary Science, Pharmacology, Nursing and Midwifery, Dietetics, Molecular Biology, Genetics, Environmental Science, Sports Science, Agricultural Science and Anthropology.

Possible careers:

Directly related: Physiologist, cytogeneticist, marine biologist, microbiologist, systems biologist, medical scientist, phlebotomist, environmental health officer, biotechnologist, radiologist, immunologist, biometric consultant and toxicologist.

Further afield: Journalism, pharmaceutical sales, law, computing, accountancy, civil service and analytical research.



'It's the little things that make the difference. My little thing is planting trees'

Wangari Maathai