

Why Study A Level Biology?

Course Introduction

Discover the science of life and explore the fascinating processes that shape living organisms. From understanding cells and genetics to investigating ecosystems and disease, A-level Biology develops your scientific curiosity, analytical thinking and practical skills in STEM fields.

Entry Requirements

5 GCSEs with a minimum Grade 6
Minimum Grade 6 in GCSE Maths,
GCSE Biology or Combined Science
and Grade 5 in English

Course Content

A-level Biology builds on GCSE knowledge to explore how living organisms function and interact, from cells to ecosystems.

- Foundations in biology: Study cell structure, biological molecules and essential life processes.
- Exchange and transport: Explore how substances move through plants and animals to sustain life.
- Biodiversity, evolution and disease: Investigate classification, natural selection and how organisms respond to pathogens.
- Communication, genetics and ecosystems: Study how organisms coordinate responses, inherit traits and interact with their environment.

Skills Developed

Develop your ability to think scientifically, analyse evidence and solve problems using biological knowledge. You'll strengthen your practical investigation, data interpretation and mathematical skills while learning to evaluate experiments, draw conclusions and explain complex biological processes with accuracy and confidence.

Career Opportunities

A-level Biology can open doors to university courses and careers in medicine, biomedical science, biology, zoology, ecology, genetics and biochemistry. It also provides a valuable foundation for fields such as healthcare, environmental science, biotechnology and research, where scientific understanding and analytical skills are highly valued.

Course Assessment

Assessment combines written examinations testing biological knowledge, data analysis and application.

- Paper 1: Biological Processes: 2 hours 15 minutes (37%).
- Paper 2: Biological Diversity: 2 hours 15 minutes (37%).
- Paper 3: Unified Biology: 1 hour 30 minutes (26%).

