

A-Level Biology in Sixth Form

1 A Level Pearson Edexcel Level 3 Advanced GCE in Biology B (9BI0)

AS Biology can be sat after year 1

A2 exam includes all of year 1 and year 2 content

AS Biology Year 1

A2 Biology Year 2

Subject Content

Advanced Biochemistry, Microbiology and Genetics

Topic 1: Biological Molecules

- Topic 2: Cells, Viruses and Reproduction of Living Things
- Topic 3: Classification and Biodiversity
- Topic 4: Exchange and Transport
- Topic 5: Energy for Biological Processes
- Topic 6: Microbiology and Pathogens
- Topic 7: Modern Genetics.

Subject Content

All of the content from AS plus:

Advanced Physiology, Evolution and Ecology

- Topic 1: Biological Molecules
- Topic 2: Cells, Viruses and Reproduction of Living Things
- Topic 3: Classification and Biodiversity
- Topic 4: Exchange and Transport
- Topic 8: Origins of Genetic Variation
- Topic 9: Control Systems
- Topic 10: Ecosystems.

General and Practical Principles in Biology

Assessment of practical skills and practical endorsement

Assessment Overview A level

Paper 1	Paper 2	Paper 3	Endorsement
	Advanced Physiology,	General and Practical	Practical Endorsement
Assessment is 1 hour 45	Assessment is 1 hour 45	Assessment is 2 hours	
30% of total A level	30% of total A level	40% of total A level	Reported separately

What could this qualification lead to?

Biologists are scientists who study the natural world and all the living things in it, from the largest mammals down to our very own microscopic DNA. They try to understand how animals and organisms work (including us humans), how we evolved and the things that can make us sick or improve our health. Biologists use this knowledge to do things like try to stop the spread of disease, track down natural resources, improve public health, animal care and conservation and work out the true impacts of things like pollution. Because biologists deal with the natural world, their jobs can take them anywhere, from labs to zoos to ocean liners in the arctic and fieldwork in the Amazon jungle. If you study biology, you will likely find yourself working on group projects, which will help you build your teamwork and communication skills too.

A Level Biology can help set you up for a range of careers in science and research. Typical jobs that require A-level Biology include: Biochemist, Botanist, Forensic Scientist, any medical or health care professional; nursing, doctor, pharmacist. Agriculture, farming, ecology and landscaping as well as health and fitness related industries. Biology A-level is also a requirement for biological, environmental and biomedical engineering.

Exam board Specification

[Edexcel AS and A level Biology B 2015 | Pearson qualifications](#)