

A LEVEL

BIOLOGY

Exam Board: AQA	Course Code: 601/4625/4
Entry Requirements: Average of grade 5 or higher across all GCSE exams including a minimum grade of 5 for English and maths. Grade 7 in Science (Biology specifically)	

Course Summary:

These qualifications are linear. Linear means that students will sit all the AS exams at the end of their AS course and all the A Level exams at the end of their A Level course. Subject content:

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| 1 <u>Biological molecules</u> | 6 <u>Organisms respond to changes in their internal and external environments (A-level only)</u> |
| 2 <u>Cells</u> | |
| 3 <u>Organisms exchange substances with their environment</u> | 7 <u>Genetics, populations, evolution and ecosystems (A-level only)</u> |
| 4 <u>Genetic information, variation and relationships between organisms</u> | 8 <u>The control of gene expression (A-level only)</u> |
| 5 <u>Energy transfers in and between organisms (A-level only)</u> | |

Skills:

Along with in-depth knowledge of the biological world, biologists also develop abilities and insight of scientific methods, data analysis, observation, correlations, and causal relationships.

As with the other science subjects, the study of A Level Biology also helps students to build up abilities in research, problem solving, organisation and analytical skills.

Students will learn how the chemical elements join together to form important biological compounds. And how these compounds build up the structure of cells and its subcellular structures. They will understand how animals and plants exchange substances with their

environment, and how they respond to internal and external changes. How cells organise and store genetic information, the mechanisms of genetic variation will be covered and students will learn the fascinating relationship between organisms. They will be able to understand the mechanisms that control the expression of genetic information and the mechanisms of evolution. They will learn about populations and their ecosystems.

Assessments:

AS Assessment: 2 written papers, A Level Assessment: 3 written papers

This course is suitable for students who...

...students passionate about Biology or students planning to study Medicine, Pharmacy or Veterinary.

Future careers:

Careers related to Biology include medical professions, pharmacy, physiotherapy, biomedical engineering, research science (life sciences), microbiology, marine biology, conservation, and ecology, environmental management, food science, agricultural engineering and zoology.

