

Curriculum Journey

KS4 & KS5 Biology

Careers
University,
Apprenticeship
Medicine,
Engineering,
Research,
Scientist
Forensics,
Environmentalist

NEA
Required
Practical's
Endorsement at
KS5

Next Steps
A level Biology,
Chemistry,
Physics, BTEC
Forensic Science

Skills for Life
Independence
Resilience
Problem solving
Creativity
Time
management
Communication
Logical thinking

A Level Biology Paper 2+3

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Components-Biology topics 5-8

- 5 Energy transfers in & between organisms (A-level)
- 6 Organisms respond to changes in their internal and external environments (A-level only)
- 7 Genetics, populations, evolution and ecosystems (A-level only)
- 8 The control of gene expression (A-level only)

A level
Biology

Skills and Knowledge Building

AO1: Demonstrate knowledge and understanding of scientific ideas, processes, techniques and procedures

AO2: Apply knowledge and understanding of scientific ideas, processes, techniques and procedures: in a theoretical context in a practical context when handling qualitative data when handling quantitative data

AO3: Analyse, interpret and evaluate scientific information, ideas and evidence, including in relation to issues, to: make judgements and reach conclusions develop and refine practical design and procedures.

A Level Biology Paper 1

Components-Biology topics 1-4

- 1 Biological molecules
- 2 Cells
- 3 Organisms exchange substances with their environment
- 4 Genetic information, variation and relationships between organisms

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GCSE
Biology

Components

- Biology topics 5-7
- 5 – Homeostasis and response
 - 6 – Inheritance, variation and evolution
 - 7 – Ecology

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Skills and Knowledge Building

AO1: Demonstrate knowledge and understanding of: scientific ideas; scientific techniques and procedures.

AO2: Apply knowledge and understanding of: scientific ideas; scientific enquiry, techniques and procedures.

AO3: Analyse information and ideas to: interpret and evaluate; make judgments and draw conclusions; develop and improve experimental procedures.

GCSE Biology Paper 2

Components

- Biology topics 1-4
- 1 – Cell Biology
 - 2 – Organisation
 - 3 – Infection and response
 - 4 - Bioenergetics

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GCSE Biology Paper 1

