

# Curriculum Journey

## KS4 & KS5 Biology

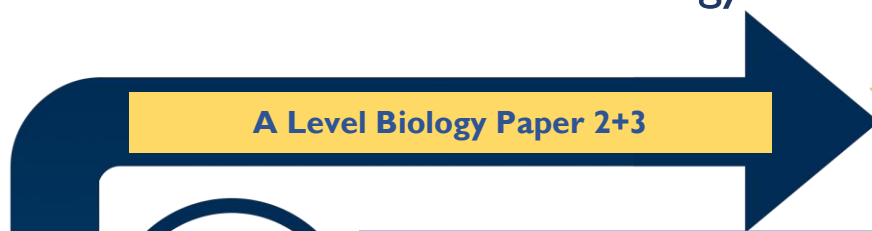
### Careers

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

### NEA

Required  
Practicals

Endorsement at  
KS5



**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**

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### Components

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

### 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.

### Next Steps

A level Biology,  
Chemistry,  
Physics, BTEC  
Forensic Science

### Skills for Life

Independence  
Resilience  
Problem solving  
Creativity  
Time management  
Communication  
Logical thinking

### Components

- Biology topics 2-4
- 2 – Organisation (Part 2)
  - 3 – Infection and response
  - 4 - Bioenergetics

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**GCSE Biology Paper 1**

