

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



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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)

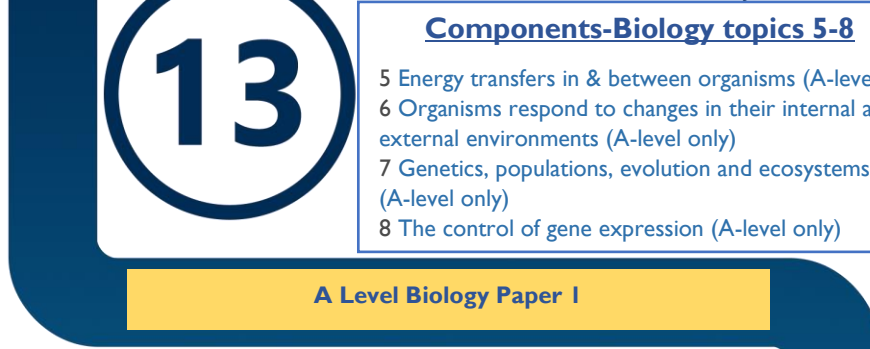
**A level
 Biology**

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

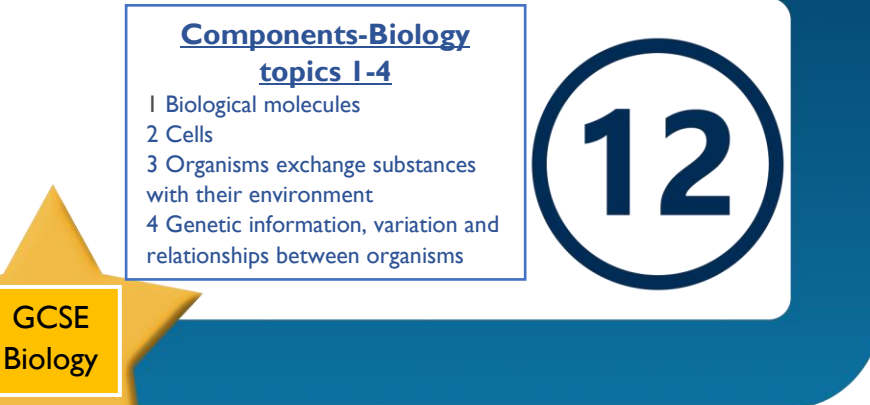
AO3: Analyse, interpret and evaluate scientific information, ideas and evidence, including in relation to issues, to: make judgements and reach conclusions develop and refine practical design and procedures.



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

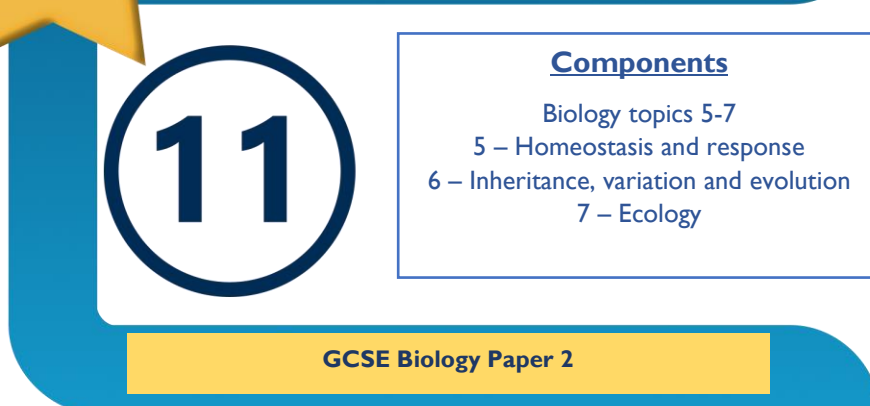
- Biology topics 5-7
- 5 – Homeostasis and response
- 6 – Inheritance, variation and evolution
- 7 – Ecology

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.



Components

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

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