

Key Stage 5 Biology Year 1

Subject Specifications

Exam board: AQA: 7401

Level: 3

<http://www.aqa.org.uk/subjects/science/as-and-a-level/biology-7401-7402>

Course Description

What will be studied?

Biological Molecules: Topics include: Monomers and polymers, Carbohydrates, Lipids, Proteins, Nucleic acids, ATP, Water and Inorganic ions

Cells: Topics you will study include: Cell structure, All cells arise from other cells, Transport across cell membranes, and Cell recognition and the immune system

Organisms Exchange Substances with their Environment: Topics you will study include: Surface area to volume ratio, Gas exchange, Digestion and absorption, and Mass transport

Genetic information, Variation and Relationships between Organisms: Topics you will study include: DNA, genes and chromosomes, protein synthesis, Genetic diversity, mutation, meiosis and adaptation. Species and taxonomy, Biodiversity within a community, and Investigating diversity.

Entry requirements

What are the entry requirements?

[Click here to access the Biology Enrolment Task](#)

The minimum entry requirement will be six GCSE qualifications at grade 4 - 9 including English Language and Mathematics. In addition to this, students will be expected to achieve minimum of a grade 5 in all separate sciences or grade 5, 5 in combined sciences.

Assessment

How will I be assessed?

Paper 1: 7401/1 [50%]

Assessed by a 1 ½ hour internal examination in the Summer Term

Paper 2: 7401/2 [50%]

Assessed by a 1 ½ hour internal examination in the Summer Term

Careers & Progression

Career ideas and Progression route

Students will progress into year 2 during which you have the opportunity to gain an A-level qualification in this subject.

Level 3 qualifications in Biology will enable students to enter degree & degree level courses that involve research, science and care based professions, including Medicine, Forensics, Technology and Nursing.

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How can I help my child?

Guidance and advice

[Glossary of Technical Terminology](#)

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Key Stage 5 Biology Year 2

Subject Specifications

Exam board: AQA: 7402

Level: 3

<http://www.aqa.org.uk/subjects/science/as-and-a-level/biology-7401-7402>

Course Description

What will be studied?

Energy transfers in and between organisms: As well as revision of Year 1 topics, you will study: Photosynthesis, Respiration, Energy and ecosystems, and Nutrient cycles.

Organisms respond to changes in their internal and external environments

As well as revision of Year 1 topics, you will study Stimuli, both internal and external, and responses by the body, Nervous coordination, Skeletal muscles, and Homeostasis.

Genetics, populations, evolution and ecosystems: As well as revision of Year 1 topics, you will study: Inheritance, Populations, Evolution may lead to speciation, and Populations in ecosystems.

The control of gene expression: As well as revision of Year 1 topics, you will study: Alteration of the sequence of bases in DNA altering the structure of proteins Features that control gene expression, Using genome projects, and Gene technologies.

Entry requirements

What are the entry requirements?

[Click here to access the Biology A Level Transition Task](#)

The recommended minimum entry requirement is a D grade at AS Level [Year 1]

Assessment

How will I be assessed?

Paper 1: 7402/1 [35%]	Assessed by a 2 hour examination in the Summer Term
Paper 2: 7402/2 [35%]	Assessed by a 2 hour examination in the Summer Term
Paper 3: 7402/3 [30%]	Assessed by a 2 hour examination in the Summer Term

Careers & Progression

Career ideas and Progression route

Level 3 qualifications in Biology will enable students to enter degree & degree level courses that involve research, science and care based professions, including Medicine, Forensics, Technology and Nursing.

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