

SUMMER WORK BIOLOGY

Head of Department

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Exam Board
AQA

Specification: 7402

Course Details

Examination

The course is examined as a whole at the end of Year 13.

Topic 1:	Biological Molecules
Topic 2:	Cells
Topic 3:	Organisms exchange substances with their environment
Topic 4:	Genetic information, variation and relationships between organisms
Topic 5:	Energy transfers in and between organisms
Topic 6:	Organisms respond to changes in their internal and external environment
Topic 7:	Genetics, populations, evolution and ecosystems
Topic 8:	The control of gene expression

SUMMER WORK FOR INTRODUCTION TO YEAR 12

TASK

Use the AQA GCSE Biology specification to review and learn content on the following specification sections:

- 4.1.1.1, 4.1.1.2, 4.1.1.5 Cells and microscopy
- 4.1.3.1, 4.1.3.2, 4.1.3.3 Transport in cells
- 4.2.2.1 Enzymes
- 4.6.1.3, 4.6.1.4 DNA, the Genome and Genetic Inheritance

These are topic areas that underpin a lot of the content covered on the AQA A Level Biology course. If you have not studied AQA before, here are some resources you can use:

[AQA GCSE Biology Specification](#)

[YouTube - Free Science lessons AQA GCSE Biology Paper 1](#)

[YouTube - Free Science lessons AQA GCSE Biology Paper 2](#)

[YouTube - Primrose Kitten AQA GCSE Biology](#)

You will be tested on the content during the first week of term.

WIDER READING TO PREPARE FOR COURSE

- Nessa Carey: The Epigenetics Revolution; Junk DNA: A Journey for the Dark Matter of the Genome
- Richard Dawkins: The Selfish Gene; The Blind Watchmaker; The Greatest Show on Earth
- Steve Jones: Language of the Genes; Y: The Descent of Men; Almost like a Whale; Coral: A Pessimist in Paradise; Darwin's Island: The Galapagos in the Garden of England
- James Watson: DNA: The Secret of Life