

## BIOLOGY

### Advanced Level Subject Guide

Exam Board: AQA

This course teaches the essential principles of Biology in interesting contexts. The course is exciting, relevant and challenging. It is designed to allow students to develop knowledge, understanding and the skills needed to continue studying in biological subjects beyond A-Level. The course seeks to highlight the contribution of Biology to modern society.

### COURSE OUTLINE

#### First Year

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

#### Second Year

5. Energy transfers in and between organisms
6. Organisms respond to changes in their internal and external environments
7. Genetics, populations, evolution and ecosystems
8. The control of gene expression

#### Practical

Students will do at least 12 practical activities across the two year A-level. Students will have more opportunities to learn and use practical skills to link theory with practice, deepening their knowledge and understanding.

You can see the detailed subject content in A-level specifications at: <https://filestore.aqa.org.uk/resources/biology/specifications/AQA-7401-7402-SP-2015.PDF>

*A-Level – all unit tests have to be taken in year 13.*

### CAREERS

The subject opens up a wide range of courses in medicine, biomedical sciences, veterinary science, microbiology, ecological survey work, physiotherapy.



### ENTRY REQUIREMENTS

- The course is well suited to those who gain a grade 6 or above GCSE Additional Science/Biology, Chemistry, Physics
- A grade 6 in Maths is desirable

*“Students who study Biology like to know how things work, their own body, a cell process, or a complex ecosystem. They learn about when things go wrong - for example, diseases or environmental problems, and they enjoy making links and solving problems.”*



# WILLIAM BROOKES SIXTH FORM

## BIOLOGY EXAMINATIONS

PAPER 1	PAPER 2	PAPER 3
<b>CONTENT</b> <ul style="list-style-type: none"><li>Any content from topics 1-4, including relevant practical skills</li></ul>	<b>CONTENT</b> <ul style="list-style-type: none"><li>Any content from topics 5-8, including relevant practical skills</li></ul>	<b>CONTENT</b> <ul style="list-style-type: none"><li>Any content from topics 1-8, including any relevant practical skills</li></ul>
<b>ASSESSMENT</b> <ul style="list-style-type: none"><li>Written Exam: 2 Hours</li><li>91 Marks</li><li>35% of A-Level</li></ul>	<b>ASSESSMENT</b> <ul style="list-style-type: none"><li>Written Exam: 2 Hours</li><li>91 Marks</li><li>35% of A-Level</li></ul>	<b>ASSESSMENT</b> <ul style="list-style-type: none"><li>Written Exam: 2 Hours</li><li>78 Marks</li><li>30% of A-Level</li></ul>
<b>QUESTIONS</b> <ul style="list-style-type: none"><li>76 Marks: A mixture of short and long answer questions</li><li>15 Marks: Extended response questions</li></ul>	<b>QUESTIONS</b> <ul style="list-style-type: none"><li>76 Marks: A mixture of short and long answer questions</li><li>15 Marks: Extended response questions</li></ul>	<b>QUESTIONS</b> <ul style="list-style-type: none"><li>38 Marks: Structured questions, including practical techniques</li><li>15 Marks: Critical analysis of given experimental data</li><li>25 Marks: One essay from a choice of two titles</li></ul>

