

## Why study A Level Biology at Brooksbank?

Do you have an interest in the natural world and the living things in it?

If you do, you should definitely consider studying A Level Biology. At A Level, this science offers answers to questions such as:

- how do our bodies work and what happens when we become ill?
- how can we deal with global issues such as malnutrition in Africa or the HIV epidemic?

It will also help you develop skills including:

- your ability to evaluate information;
- your ability to make reasoned scientific arguments.

If you would like to work with people and want to improve the quality of people's lives, then A Level Biology is a must study subject.

## What new skills will I learn?

A Level Biology will help you to build up your research, problem-solving, organisation and analytical skills.

Lessons focus mainly on Human Biology and a large variety of teaching styles are used to help you understand and learn the some difficult subject content.

You will learn to work well in a team and independently. We work with you to develop presentation, research and practical skills.

Practical work will develop your evaluation and analytical skills.

## Career routes with Biology

Biology is recognised as a challenging subject. However, success in the subject will open doors to a huge range of courses.

You will be well prepared to study audiology, biological sciences, biochemistry, biomedical sciences, dentistry, environmental sciences, evolutionary biology, forensics, healthcare, medicine, medical science, microbiology, neuroscience, nursing, optometry, pharmacy, pharmacology, physiotherapy, podiatry, psychology, radiotherapy, sports science, teaching, veterinary science and zoology.

**Chemistry, Physics, Mathematics, PE or Geography all work well with A Level Biology.**

# Course Outline

## Year 12

You will study cells, their structure and how they exchange materials as well as the transport of substances within module 2. Module 3 also has a focus on the human transport system, including the human circulatory system and the heart. Although not a pure Human Biology A Level, this aspect of the course is very good for students wanting to study more Human Biology. Module 4 looks at biological molecules, biodiversity of species and current food and health issues. Module 1 is integrated throughout the course and covers development of practical skills.

## Year 13

Second year study for A Level Biology builds on the first:

Module 5 investigates homeostasis, how the human body regulates its internal environment, how cells communicate through nerve impulses and how energy is made within both plant and animal cells.

Module 6 explores cell division, the production of new genetic material, new genetic technologies and their impact on society. This module also addresses some of the important environmental impacts of our increasing population and looks at ways of sustaining current lifestyles, and also basic animal behaviour.

The examinations at the end of the two-year course assess learning in both Year 12 and Year 13. Throughout the two years, practical skills are integrated into all topics and lessons. Students receive a pass/fail practical endorsement for Biology, which is separate to their A Level grade.

**Lead Teacher:** Mrs L Farley

**Exam Board:** OCR

## Sixth Form Entry Requirements:

To study **Level 3** (academic A Level) courses students must have a minimum of at least **five** GCSEs at 9 - 4 grades (or equivalent). These must include a grade 4 and 5 in English Language and Mathematics (either way round, but higher grade must support subject choices).

## Additional requirements:

Grades 6 / 6 or above in GCSE Combined Science AND Grade 5 or above in GCSE Mathematics.

OR

Grade 6 or above in GCSE Biology, Grade 5 or above in GCSE Chemistry AND Grade 5 or above in GCSE Mathematics.

## Assessment:

Three external examinations. In addition students also receive a practical endorsement for Biology which is reported separately, as a Pass, if the skills have been demonstrated during the course.

**Find out more ... visit our website [www.bbs.calderdale.sch.uk](http://www.bbs.calderdale.sch.uk)**

**Here to help ... speak to the course tutor or your form tutor**

**Call us on 01422 328928. Email [admin@bbs.calderdale.sch.uk](mailto:admin@bbs.calderdale.sch.uk)**

