**Why A-level Biology?**

*Biologists are scientists who study the natural world and all the living things in it, from the largest mammals down to our very own microscopic DNA.*

They try to understand how animals and organisms work (including us humans), how we evolved and the things that can make us sick or improve our health.

Biologists use this knowledge to do things like try to stop the spread of disease, track down natural resources, improve public health, animal care and conservation and work out the true impacts of things like pollution.

**Where do biologists work?**

*Biologists work everywhere from jungles to Arctic Ocean liners and research stations*

Because biologists deal with the natural world, their jobs can take them anywhere, from labs to zoos to ocean liners in the arctic and fieldwork in the Amazon jungle.

**What skills will I get from studying biology?**

As with the other sciences, biology helps you to build up research, problem solving, organisation and analytical skills.

If you study biology, you will likely find yourself working on group projects, which will help you build your teamwork and communication skills too.

**What careers can I do with biology?**

Biology is a key subject for lots of [STEM careers](https://successatschool.org/careerzonesummary/34/Science-Research), particularly in healthcare, medicine and jobs involving plants or animals. The list is pretty long and includes: nursing, dentistry, forensic science, psychology, physiotherapy, botany, environmental science, zoology, geology, oceanography, pharmaceuticals, energy, teaching, science writing, genetics and research.



*Lab science is one of many career paths for biologists*

Rachel Lambert-Forsyth, director of education and training at the Society of Biology, says: “biology opens up exciting career possibilities. From conservation to cancer research, biologists are tackling important 21st century challenges, and we need skilled young people to be part of this.

“It is also important to remember that biology is excellent preparation for [non-scientific careers](https://successatschool.org/careerzonesummary/34/Science-Research), thanks to the skills it provides – everything from analytical thinking to writing reports.”

[Find out where else biology can take you...](https://successatschool.org/advicedetails/392/Careers-in-Biology:-Where-Can-GCSE-A-Level-Biology-Take-You%3F)

**What subjects go with biology?**

Biology will support your study of other sciences and [maths](https://successatschool.org/advicedetails/186/Why-Study-Maths%3F) as well as subjects like psychology and geography. But study it with a language or an essay subject like English at [A-level](https://successatschool.org/advicedetails/546/what-are-a-levels) and you might have even more choices for your career.

**What degrees and other qualifications do I need biology for?**

Biology is part of that gang of four subjects, which also includes maths, [physics](https://successatschool.org/advicedetails/224/Why-Study-Physics%3F) and [chemistry](https://successatschool.org/advicedetails/190/Why-Study-Chemistry%3F). You’ll often need at least two of these four subjects to get onto lots of different science based courses, so it’s a useful all-round choice.

You’ll specifically need biology for [courses in medicine](https://successatschool.org/jobscourses), biology (yes indeed...), biomedical sciences, dentistry, dietetics (studies in food and nutrition), physiotherapy, orthopics (treating eye disorders) and veterinary science.

Biology is usually required or recommended for degrees in: biochemistry, chemical engineering, chemistry, geology, environmental science, materials science, nursing and midwifery, occupational therapy, optometry, pharmacy, sports science, psychology and speech therapy.

It is also useful for: anthropology, psychology, civil engineering, geography, and [teaching](https://successatschool.org/careerzonesummary/8/Education-Teaching).

You may need A-level or BTEC in Biology to take on a higher apprenticeship in healthcare or biological sciences – e.g. researching diseases or biochemistry.

GCSE Biology might also come in useful for intermediate or advanced apprenticeships in animal care, horticulture, veterinary nursing or [environmental conservation careers](https://successatschool.org/careerzonesummary/40/Agriculture-Environment).

**Entry Requirements**:

* Combined Science – Grade 66
* **or** GCSE Biology – Grade 6

If you have any question please contact the following staff:

* Mr Byrne - [p.byrne@gateacre.org](mailto:p.byrne@gateacre.org)
* Mr Seddon - [m.seddon@gateacre.org](mailto:m.seddon@gateacre.org)
* Mrs Harris – [c.harris@gateacre.org](mailto:c.harris@gateacre.org)