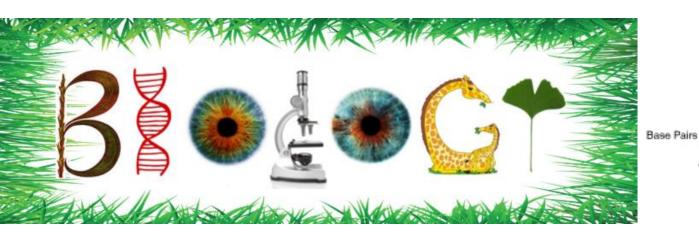
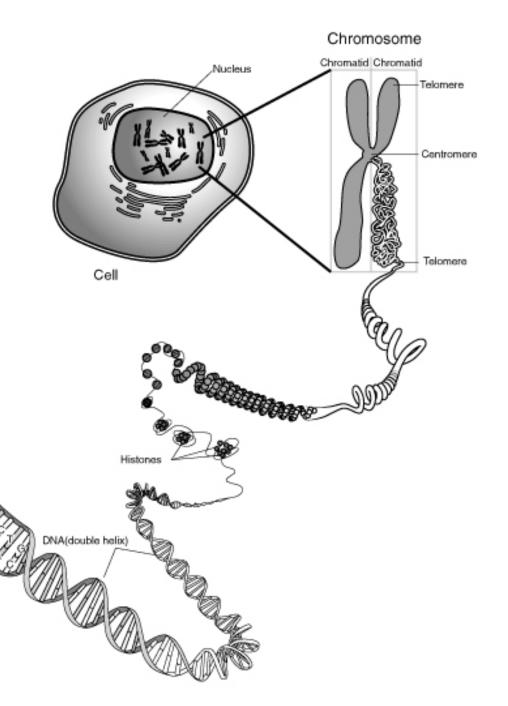
ALEVEL





Assessments

Paper 1

What's assessed

 Any content from topics 1-4, including relevant practical skills

Assessed

- written exam: 2 hours
- 91 marks
- 35% of A-level

Questions

- 76 marks: a mixture of short and long answer questions
- 15 marks: extended response questions

How am Lassessed???

Paper 2

What's assessed

Any content from topics 5-8, including relevant practical skills

Assessed

- written exam: 2 hours
- 91 marks
- 35% of A-level

Questions

- 76 marks: a mixture of short and long answer questions
- 15 marks: comprehension question

Paper 3

What's assessed

Any content from topics 1-8, including relevant practical skills

Assessed

- written exam: 2 hours
- 78 marks
- 30% of A-level

Questions

- 38 marks: structured questions, including practical techniques
- 15 marks: critical analysis of given experimental data
- 25 marks: one essay from a choice of two titles

What topics will I study at A Level Biology?

AS and first year of A-level	Second year of A-level
 Biological molecules Cells Organisms exchange substances with their environment Genetic information, variation and relationships between organisms 	 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

Course Materials

All students will have:

- a course textbook
- class notes / work
- homework notes / independent study materials
- specification requirements for each topic area
- many examples of past paper questions
- You will be expected to complete 5 hours of independent study a week

Entry requirements for A level Biology:

- 6 in separate Biology / 6 in Biology exams of combined Science
- 6 in Maths & English



20% of your A Level Biology will be awarded for MATHS!!!!

You have a 25 mark essay to write in paper 3 so English skills are vital!!!

About us - Team Biology teachers ©

Miss N Russell

Head of Biology

Studied Biomedical Sciences at Newcastle University

Favourite topic – It's hard to pick!

Year 12 – the dissections Year 13 – homeostasis



Mrs K Forster

Head of Science

Studied Biology at Newcastle University

Favourite topic – LOVE all of biology!

What do our current students say about choosing biology?

"Biology is an exciting and interesting subject which I recommend anyone to take. Every class we have is fun and I have enjoyed all my time during the A-level course. There are also many great trips to go on including university trips and fieldwork where we all had a great time catching Dave our mouse!"

"You should choose biology because the **teachers** are great and find unique ways to help remember

Every lesson is well explained and planned. You have opportunities to make and deliver presentations to build your confidence and develop your skills if you plan to go to university!"

"Biology at A level is a very rewarding and interesting subject. You get loads of support from the teachers and I look forward to practicals. Although they aren't always successful they are fun and teach you valuable skills to become a scientist'

"Biology challenges you and pushes you beyond your limits. It opens a Wide range of doors for a Successful career. The teachers are so supportive and it was one of the best decisions I have made choosing this subject. You won't regret taking this

"Biology is the perfect mix of science, maths and a little bit of English. The team of teachers are the reason I couldn't leave St Wilfrid's and there's absolutely no opportunity to fall behind. Biology opens the doors to so many opportunities and will go well with almost any

"Biology is amazing! I decided to stay at St Wilfrid's after gaining a grade 9 at GCSE Biology. The support from our teachers is second to none, and they are on call 24/7, even on weekends via email if I am in need of help with biology. I have no regrets in taking biology and neither will you!"

What extra curricular opportunities do you get if you take A level Biology?

Field Trip





National Biology Week!



Students were able to design their own biology-related costume and come into their lessons wearing it!!!





National Biology Week!



Sixth form students were our 'taste testers' for the Biology bake off!!!

Fertility in the toon trip!

What practical work does Biology involve?

Required Practicals

Required activity

- Investigation into the effect of a named variable on the rate of an enzyme-controlled reaction
- Preparation of stained squashes of cells from plant root tips; setup and use of an optical microscope to identify the stages of mitosis in these stained squashes and calculation of a mitotic index
- Production of a dilution series of a solute to produce a calibration curve with which to identify the water potential of plant tissue
- Investigation into the effect of a named variable on the permeability of cell-surface membranes
- Dissection of animal or plant gas exchange or mass transport system or of organ within such a system
- Use of aseptic techniques to investigate the effect of antimicrobial substances on microbial growth
- Use of chromatography to investigate the pigments isolated from leaves of different plants, eg leaves from shade-tolerant and shadeintolerant plants or leaves of different colours
- Investigation into the effect of a named factor on the rate of dehydrogenase activity in extracts of chloroplasts
- Investigation into the effect of a named variable on the rate of respiration of cultures of single-celled organisms
- Investigation into the effect of an environmental variable on the movement of an animal using either a choice chamber or a maze
- 11. Production of a dilution series of a glucose solution and use of colorimetric techniques to produce a calibration curve with which to identify the concentration of glucose in an unknown 'urine' sample
- Investigation into the effect of a named environmental factor on the distribution of a given species

What careers could Biology lead me to?...

had Proposition Constitutingled assimpted tribitate Came Manager Brits Injust catus . Your Engineer Avans Consultant ACC Sci Colores Surgeon Personales **Entermotograt Animal Breeder Technician** sensurement Chiragrapter Aquiticulturist Geneticist Try Sargera Manufager. Electron Microscopist. Paleoncologist Forest Pathologist - Manusalegist Lab Agricultural Noticeal Resources Manager Number Statement Sensors Venture Community Palynologist Technician Economist Biological Zoologist Acusertum Desector Assessed War Support Bioinformaticist Guality Sales Representative Technicism Statisticism Audiologist - Options Meat and Poultry Assurance Plant Hanger Medical Records Librarian Statisticism Audiologist - Options Manager Options of Options Options Forester Food Inspector Manager Osteopath American di Street Manager Biological Consultant Agronomist Veterinary Technician Agresome Food & Drug Inspector R & D Biochemist Danty Manager Numbered Aquatic Bologst Enelogist technicism Ecologist Manufer Manufer Modu Tochnicus Environmental Technologist Temberoire Biostatistician Emergency Veterinarian Medical Physiologist Technician Sewage Plant Operator Mycologist Biological Photographer Quality Control Occupational Therapist technician Genome Data Curator Radiologist MOLECULAR ECOLOGIST Fosti Fuel Aquator-Oreston Marine Biologist Hygienist Medical Illustrator Control Dictitian mina forcopy forces Physiologist Genetic Engineering Botanist Fisheries Specialist Microbiologist Zoo Assistant Optometrist Biologist Respiratory Therapist Peace Paramedia Motod Road Parametric Administration Relatives (Relatives) Technician Cell Biologist Plant Feet Industrial Waste Specialist Corps Science Librarian Feet Reacher Specialist Corps Phichosonics Assurescious Control Inspector Naturalist Soil Scientist Forestry Technician Representative Leacher Warden/Ranger Wildlife Forensics Worker Licensed Meteorologist Regulatory Affairs Research tousines (American Practical Nurse Environmentalist Middlife Conservation Hospital Nurse Resert Associate Pharmacologist (Valuette Management Specialist Administrator Greenhouse Destat Assistant Insect Quarantine Inspector Names Scenoss Research Curator Physiopethologian Forest Economist Manager Environmental Planner Annance Water Linselept Biological Illustrator Aquatic Biologist Quality Field Biologist Offlice Manager Biomedical Proteomics Floral for Family Dentistry