



# A Level Biology @ KES

## OCR Biology A

Studying biology will enable you to find out why your siblings look like you do, find out how medicines work, what DNA is, whether clones really exist, and who Darwin was, for example. We hope that the course will promote curiosity, develop your understanding of complex biological ideas and inspire the new generation of biologists.



A Level biology is clearly a specialised science qualification, thus providing an excellent foundation for further study of Medicine, Veterinary Science, Biotechnology, Physiotherapy, Microbiology, Sport Science and all aspects of Biology.



## What's included

Development of practical skills in biology	Transport in plants	Plant and animal responses
Cell structure	Communicable diseases, disease prevention and the immune system	Photosynthesis
Biological molecules	Biodiversity	Respiration
Nucleotides and nucleic acids	Classification and evolution	Cellular control
Enzymes	Communication and homeostasis	Patterns of inheritance
Biological membranes	Excretion as an example of homeostatic control	Manipulating genomes
Cell division, cell diversity and cellular organisation	Neuronal communication	Cloning and biotechnology
Exchange surfaces	Hormonal communication	Ecosystems
Transport in animals		Populations and sustainability

Emphasis throughout the course is on increasing knowledge, developing competence and confidence in practical skills and developing problem solving. You will learn how society makes decisions about scientific issues and how science contributes to the success of the economy and society.

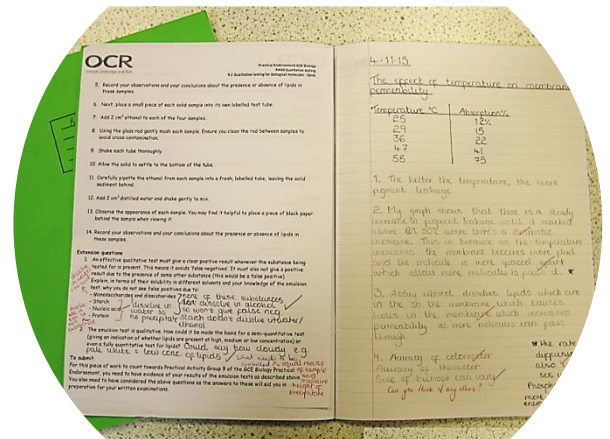
## How will you be assessed?

- Total of six hours assessment split over three examination papers (2 x 2 hours 15 minutes and 1 x 1 hour 30 minutes) taken at the end of the two year course.
- A wide range of question types including: multiple choice, short answer and extended response questions.
- Opportunity to demonstrate your knowledge of both theory and practical skills through the examinations.



## To achieve a Practical Endorsement, through a range of experiments, you will become competent in:

- Following procedures
- Applying an investigative approach when using instruments and equipment
- Working safely
- Making and recording observations
- Researching, referencing and reporting.





### What makes Biology @ KES unique?

- Excellent results – in the **top 25% of schools in the country** for our 4-year ALPS average.
- Highly experienced, inspirational teachers
- Innovative and engaging lessons
- Quality resource materials
- Enrichment activities
  - ✓ Annual field trip to Scarborough
  - ✓ Opportunities to take part in events such as the Biology Olympiad



### What you can expect from us:

- ✓ A friendly and supportive atmosphere for study
- ✓ Feedback on your progress via written comments, conversation, regular assessment and monitoring interviews.
- ✓ A genuine concern for the welfare and development of all students.
- ✓ Targeted intervention and supervised study work





What our  
2021 leavers  
have gone on  
to do...

Medicine (OXFRD)

Biology (SHEFD/LOND/LANC/MANC)

Sports and Exercise Science (various)

Marine Biology (PORTS)

Biomedical Science (various)

Biochemistry (MANC)

Biological Sciences with placement year (WARW)

Biology + placement year (SHEFD)

Bioengineering (SHEFD)

Diagnostic Radiography (SALF)



The future...

- Some of our A-level biology students choose a career that is completely unrelated. This group of students chose to study biology because any Science A level is highly regarded by universities as a **test of problem-solving, logical thought and practical skills.**

For more details please do not hesitate to contact:  
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**Further course details:**

Specification: OCR Advanced GCE Biology A

<http://ocr.org.uk/qualifications/as-a-level-gce-biology-a-h020-h420-from-2015/>