

Subject: Biology (OCR A)

Subject Leader: Mr Brett Kingsbury

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CNS 6th Form



An Ormiston Academy

This course covers the following key topics:

Y12 will see you study gaseous exchange and transport systems in mammals, fish, insects & plants, communicable disease and the immune system, biodiversity and conservation and classification and evolution of species.

These are underpinned by foundational knowledge in cell ultrastructure, biochemistry, biological membranes, DNA and cell division gained at the start of the course.

Y13 topics include internal communication through the nervous and endocrine systems, homeostatic mechanisms, energy harnessing and release in respiration & photosynthesis, patterns of inheritance and gene and biotechnologies.

We love teaching this course because:

Biology is a truly multidisciplinary subject. Chemical, physical, environmental, geographical, mathematical and English knowledge is utilised.

Biology has huge explanatory power of phenomena across the scales of organisation; from the very tiny biochemical to the very large ecosystem level.

Understanding the natural world and our impact on it is one of, if not the, biggest issue of the day.

Our students say:

"I chose Biology as it is a subject that opens many opportunities post A levels."

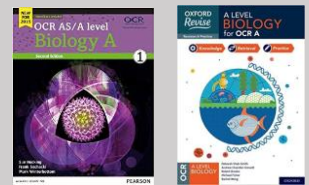
"I enjoy studying Biology at CNS because the lessons are very interactive, allowing everyone to participate and ask questions in order to gain a really clear understanding of a topic."

"There are plenty of practical opportunities to enable you to relate the learned knowledge to real biological examples in action."

"The teachers are enthusiastic about what they teach, making lessons engaging and enjoyable."

Recommended Textbooks:

OCR AS/A level Biology A Student Book by Pearson



Oxford Revise: A Level Biology for OCR A Revision and Exam Practice

If you love Biology, we really recommend you read:

- 1) The Body by Bill Bryson (book)
- 2) The Serengeti Rules by Sean B. Carroll (book)
- 3) Biological Sciences Review (journal)
- 4) Extinction: The Facts (TV – BBC)



What future pathways are open to me if I study Biology?

Degree courses: Marine biology, Psychology, Sport and exercise science, Medicine, Physiology and Pathology

Careers: Doctor, Physiotherapist, Life science researcher, Pharmacologist, Nature Conservation officer