

BIOLOGY CURRICULUM: KS5

Intent:

In Science we aim to deliver a *knowledge rich, ambitious, and inclusive* curriculum that ensures all pupils master key concepts in the three Sciences. This *empowers* them to examine *relevant* global issues such as pollution, food sustainability, climate change *etc.* We ensure pupils develop a *coherent* understanding of scientific enquiry and gain the skills needed to draw valid conclusion via practical work. We aim to foster pupil's natural curiosity and develop them into critical thinkers where they can apply their knowledge to the modern world (e.g., understanding electricity bills, choosing a car wisely, the importance of screening).



Qualification(s)	Biology A-Level
Exam Board	AQA
Link to Specification	AQA AS and A-level Biology Specification at a glance

Procedural knowledge is developed throughout the curriculum whilst pupil's carry out the required practicals. These practicals are assessed within the external exams so is vital pupils attend these lessons.

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 12	1. Biological Molecules 2. Nucleic Acids 3. Cell Structure	3. Cell Structure (continued) 4. Transport across the cell membrane 5. Cell recognition and the immune system	6. Exchange 8. Protein Synthesis	7. Mass Transport 9. Genetic Diversity	7. Mass Transport (continued) 10. Biodiversity	11. Photosynthesis 17. Inherited change
Year 13	12. Respiration 18. Populations and evolution	13. Energy and Ecosystems 14. Response to Stimuli 19. Populations in ecosystems	15. Nervous coordination and muscles 20. Gene Expression	16. Homeostasis 21. Recombinant DNA technology	<i>Revision</i>	<i>External Exams</i>

Further Support:

Pupils are advised to use the following textbook to support their learning (ISBN: 978-0-19-835177-1):

<https://global.oup.com/education/product/9780198351771/?region=uk>

Physics and maths tutor. Revision notes, key points, worksheets, and questions by topic from past papers.

www.physicsandmathstutor.com

Pupils are issued with a revision workbook at the end of year 12. They are able to work through and keep these to support their revision.

Who to contact regarding KS5 Biology:

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