



Sir Frederic Osborn
A specialist sports college

KS5 Science

Studying science at A level is a challenge that students relish and excel at. Currently offering Biology and Applied Science, students develop and extend their theoretical understanding, practical skills and personal interest in these rigorous and relevant areas of human endeavour.

Year 12 Biology Curriculum Plan 2015- 2016

Group	3 rd Sep- 23 rd Oct (7 weeks)	2 nd Nov- 18 th Dec (6 weeks)	5 th Jan – 11 th Feb (6 weeks)	22 nd Feb- 1st April (5 weeks)	20 th Apr- 27 th May (6 weeks)	2 nd Jun- 22nd Jul (7 weeks)
AWE	Exchange & Transport– Exchange surfaces + PAG1, Transport in animals + PAG2 19h + 1h Ass	Exchange & Transport - Transport in plants + PAG1/2, Communicable diseases, disease prevention and the Immune system + PAG1 17h	Communication, Homeostasis and energy – Communication and homeostasis, Excretion, Neuronal and hormonal communication 14h + 1h Ass	Communication, Homeostasis and energy – Plant and animal responses + PAG11 13h	Biodiversity evolution and disease – Biodiversity + PAG3 14h + 1h Ass	Exam practice HSW 15h
BH	Foundations in Biology - Cell structure + PAG1, Biological Membranes + PAG5 16h + 1h Ass	Foundations in Biology - Cell division, cell diversity and cellular organisation + PAG1, Biological molecules Exam 17h + 1h Ass	Biological molecules + PAG 6/9, 15h	Foundations in biology – Nucleotides and nucleic acids, Enzymes 14h + 1h Ass	Foundations in biology – Enzymes + PAG4 Biodiversity evolution and disease – Classification and evolution 13h	Biodiversity evolution and disease – Classification and evolution. Mathematical skills 15h

Year 13 Biology Curriculum Plan 2015- 2016

Groups	3 rd Sep- 23 rd Oct (7 weeks)	2 nd Nov- 18 th Dec (6 weeks)	5 th Jan – 11 th Feb (6 weeks)	22 nd Feb- 1st April (5 weeks)	20 th Apr- 27 th May (6 weeks)	2 nd Jun- 22nd Jul (7 weeks)
AWE	Exchange & transport 16h	Exchange & Transport (3h) End of module assessment (1h) Exam prep & Mock (4h)	Food & Health (14h)	Food & Health(3h) End of module test (1h) Biodiversity & Evolution (8h)	A2 No revision scheduled – no AS exams.	A2
BH	Cells Controlled Assessment (2x3h) 24h End of module assessment	Molecules, biodiversity, food & Health (15h) <u>Assessments (2x3h)</u>	Molecules, biodiversity, food & Health (14h) End of module test (1h) Controlled Assessments (1x3h)	Biodiversity & Evolution (11h) End of module test (1h) Controlled assessments (2 x 3h)	A2 No revision scheduled – no AS exams.	A2

Year 13 A2 Applied Science

Groups	2 Sep- 24 Oct (7 weeks – 21 hours – 35 incl h/w)	3 Nov- 19 Dec (7 weeks – 21 hours – 35 incl h/w)	5 Jan – 13 Feb (6 weeks – 18 hours, 30 incl h/w)	23 Feb- 2 April (6 weeks – 18 hours, 30 incl h/w)	20 April - 22 May (5 weeks – 15 hours, 25 incl h/w)	1 Jun- 17 Jul (7 weeks)
13A Applied Science	The Mind, Stress and illness. [6] Everyday Cognition [12] Methods and ethical issues in brain research [6]	Weeks; 1; waves, 2; waves, 3; radiation, 4; refraction, 5; total internal reflection	Weeks; 6; communication , 7;analogue vs digital, 8; cellular communication .	Weeks; 9; X-rays, 10; handling radiation, 11; gamma and half-life.	Revision Study leave begins 27 th May.	Provisional exam date; 16 th June Source; OCR
Portfolio work will run over into Autumn 2, especially with regard to the AO3 section “Everyday cognition”						

Useful information

USEFUL SITES:

www.bbc.co.uk/bitesize/ks3/science
www.darvill.clara.net
www.skool.co.uk/keystage3
[www.docbrown.info/ks3science.](http://www.docbrown.info/ks3science)
www.rigb.org
www.schoolscience.co.uk
www.sciencenewsforkids.org
www.nhm.ac.uk/
www.sciencemuseum.org.uk

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