



Sir Frederic Osborn
A specialist sports college

KS4 Science

There are three pathways to studying science at SFO: Separate Science [3 GCSEs], Double Science [2 GCSEs] and BTEC Level 1/ Level 2 Certificate in Applied Science. Both GCSE courses are examined at either Foundation or Higher tiers and the courses are a stimulating combination of all three science disciplines. We follow the OCR 21st Century Science syllabus, which prepares students thoroughly for further study at Sixth Form. The course is firmly rooted in contemporary scientific issues, as well as being investigative and engaging.

All three pathways involve examined units: GCSEs are 75% exam based, BTEC 25%. The remainder of the qualification is either controlled assessment [GCSE] or portfolio [BTEC].

Year 10 Curriculum Plan

2015 - 2016

Groups	3 Sep- 23 Oct (7 weeks – 35 lessons)	2 Nov- 18 Dec (7 weeks – 35 lessons)	5 Jan – 11 Feb (6 weeks – 30 lessons)	22 Feb- 1 April (6 weeks – 30 lessons) .	20 April - 27 May (5 weeks – 20 lessons)	2 Jun- 22 Jul (7 weeks – 35 lessons)
10XSb1 [Triple] KK	P2, B2, C2,	P3, B3, C3	P4, B4	C4, P5	B5, 5	Controlled assessment prep
10XSc1 [Double] BC8 Lead, AWE2	C2, P2, B2	B2, C3, controlled assessment prep	Controlled assessment prep P3, B3,	Revision	Revision. Then C4.	C4, B4.
10XSc2 [Double] DH	B2, C2, P2	B3, controlled assessment prep	Controlled assessment prep C3, P3	Revision	Revision. Then B4.	C4.
10YSb1 [Triple] FH7 lead, [JM2, KK1 – share]	P2, B2, C2,	P3, B3, C3	P4, B4	C4, P5	B5, 5	Controlled assessment prep
10YSc1 [Double] JM7, BC1, DS1, ENG1.	C2, P2, B2	B2, C3, controlled assessment prep	Controlled assessment prep P3, B3,	Revision	Revision. Then B4.	B4, C4.
10YSc2 AWE7, JM1, ENG1, LBE1	Unit 2	Unit 2 / Unit 3	Unit 3/ Unit 4	Unit 4	Unit 1	Resubmissions

Year 10 exam entries 2015 - 2016

January 2016:

Core and Separate Science:
No exams as 1 and 2 year courses now 100% linear.

May 2016

Core Science:
Biology A; (B1, B2 and B3)
Chemistry A; (C1, C2 and C3)
Physics A; (P1, P2 and P3)

Also,
Controlled assessments (one case study, one data analysis) to be submitted to OCR
by May 2016.

Separate Science:
No exams as 2 year courses are 100% linear.

Coursework

Separate Science;
Complete in Year

11

Double Science;
10th December – Data analysis

5th February – Case study

Year 11 Curriculum Plan 2015 - 2016

Groups	3 Sep- 23 Oct (7 weeks – 35 lessons)	2 Nov- 18 Dec (5 weeks – 25 lessons) 2 weeks mock exams	5 Jan – 11 Feb (6 weeks – 30 lessons)	22 Feb- 1 April (6 weeks – 30 lessons)	20 April - 22 May (5 weeks – 20 lessons)
11XSb1 Triple [FH and JMI]	JMI - B5, C5	B6, C6 c/a prep	B7	B7 / C7	C7 and revision
	FH - P5	P6 c/a prep	P7	P7	Revision
11XSc1 Additional [KK9/AWE 1]	C4 [half], B4, P5	B5, C5, c/a prep	P6, B6	C6 and revision	Revision
11XSc2 BTEC [DH]	Unit 6	Unit 7	Unit 5	Unit 8	Resubmissions
11YSb1 [JMI and BH]	JMI - C5, P5	C6, P6 c/a prep	C7	C6 / P7 [KK]	P7 [KK] and revision
	BH - B5	B6	B7	B6 / P7 [KK]	P7 [KK] and revision
11YSc1 Additional [KK8/FH2]	C4, P5	B5, C5, c/a prep	P6, B6	C6 and revision [JMI and BH during P7]	Revision [JMI and BH during P7]
11YSc2 BTEC [AWE]	Unit 6	Unit 7	Unit 5	Unit 8	Resubmissions

Year 11 exam entries 2015 - 2016

January 2016:

No exams – all courses now 100% linear

June 2016

Additional Science:

Biology A; (B4, B5 and B6)

Chemistry A; (C4, C5 and C6)

Physics A; (P4, P5 and P6)

Also,

Additional Science Controlled assessments to be submitted to OCR

Dates for this; 23rd November – [Physics controlled assessment]

Separate Science:

Biology A; Paper 1 (B1, B2 & B3), Paper 2 (B4, B5 & B6), Paper 3 (B7)

Chemistry A; Paper 1 (C1, C2 & C3), Paper 2 (C4, C5 & C6), Paper 3 (C7)

Physics A; Paper 1 (P1, P2 & P3), Paper 2 (P4, P5 & P6), Paper 3 (P7)

Also,

Biology, Chemistry and Physics controlled assessments to be submitted to OCR.

Dates for these; 20th November and 22nd January and 11th February.

Modules;

Core science – Year 10;

- B1 – You and your genes
- B2 – Keeping healthy
- B3 – Life on earth
- C1 – Air quality
- C2 – Material choices
- C3 – Chemicals in our lives
- P1 – The earth in the universe
- P2 – Radiation and life
- P3 – Sustainable energy

Additional science - Year 11;

- B4 – The processes of life
- B5 – Growth and development
- B6 – Brain and mind
- C4 – Chemical patterns
- C5 – Chemicals of the natural environment
- C6 – Chemical synthesis
- P4 – Explaining motion
- P5 – Electric circuits
- P6 – Radioactive materials

- B7 – Further biology
- C7 – Further chemistry
- P7 – Further physics

KS4 Assessment

- Each topic ends with a topic test, using a past paper from OCR and the accompanying mark scheme and grade boundaries.
- At appropriate points of the year, exam groups will take 'live walk-through exams' in Osborn Hall to practice effective exam technique in realistic exam conditions.
- Controlled assessment plays a large part in these years. Students will go through the necessary training and practice before undertaking live case studies and data analysis [Year 10] and full investigations [Year 11].

Useful information

The school has revision guides [CGP] at cost price available to purchase. We wholly recommend that your son / daughter get this very useful resource.

USEFUL SITES:

www.bbc.co.uk/bitesize/ks3/science
www.darvill.clara.net
www.skool.co.uk/keystage3
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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