

Staff

Mr T Wahid - Head of Science

Dr I Saadouné – Deputy Head of Science and Head of Physics

Mr W Sayed - Deputy Head of Science and Head of Biology

Mr Y Hafesji - Head of Year 11

Mr I Bozdaq - Science Teacher

Mr H Mallu - Science Teacher

Mr DJ Minors – Science Teacher (SCITT)

Mr C Wadey - Head of 6th form and Assistant Principal

KS3

At Norlington School for Boys KS3 Science students follow the new scheme of work based on the 2014 curriculum, adapted from Smart Science.

	CONTENT					
SMART SCIENCE	BIOLOGY	CHEMISTRY	PHYSICS	SKILLS	ASSESSMENT	HOMEWORK
Year 7	<ul style="list-style-type: none">Living systemsDiet and healthEcosystems	<ul style="list-style-type: none">The particulate nature of matterAcids and AlkalisAtoms, Elements and compoundsMaterials and everyday	<ul style="list-style-type: none">Energy	<ul style="list-style-type: none">Health + SafetyUsing a Bunsen burnerSimple investigative skills	Regular diagnostic book marking 1 formative assessment per topic 1 summative assessment every 3 topics	1 piece set each week to either define keywords or complete a worksheet. Each homework should take 30 - 45 minutes to complete.

		chemistry				
Year 8	<ul style="list-style-type: none"> • Reproduction and growth • Photosynthesis • Breathing, respiration and circulation 	<ul style="list-style-type: none"> • Earth and atmosphere • Reactions 	<ul style="list-style-type: none"> • Space • Electricity and electromagnetism • Force and motion 	<ul style="list-style-type: none"> • Investigative skills 	Regular diagnostic book marking 1 formative assessment per topic 1 summative assessment every 3 topics	1 piece set each week to either define keywords or complete a worksheet. Each homework should take 30 - 45 minutes to complete.

Year 9

Students in year 9 are taught a *mini GCSE course* for the first 3 cycles (September 2015 – January 2016) adapted from Smart Science key stage 3 and AQA GCSE syllabus. For the last 3 cycles (February 2016 – July 2016) students in 9Sc1, 9Sc2, 9Sc3 and 9Sc4 will be taught the NEW AQA GCSE Combined sciences: Trilogy curriculum and Year 9 triple students are taught separate sciences: Biology, Chemistry and Physics. All students will take their final GCSE exams at the end of year 11.

	CONTENT					
	BIOLOGY	CHEMISTRY	PHYSICS	SKILLS	ASSESSMENT	HOMEWORK
Year 9	<ul style="list-style-type: none"> • Genetics and Evolution (<i>mini GCSE</i>) 	<ul style="list-style-type: none"> • C1 Atomic structure • C2 The periodic table 	<ul style="list-style-type: none"> • Waves and Light (<i>Mini GCSE</i>) 	<ul style="list-style-type: none"> • Health + Safety • Investigative skills 	Regular diagnostic book marking	1 piece set each week to either

	<ul style="list-style-type: none"> • B1 Cell structure and transport • B2 Cell division • B3 Organisation and the digestive system • B4 Organising animals and plants 		<ul style="list-style-type: none"> • Levers, moments and pressure (<i>mini GCSE</i>) • P9 Motion (triple only) • P10 Force and motion (triple only) • P11 Force and pressure (triple only) 	<ul style="list-style-type: none"> • AQA biomimicry unit 	<p>1 formative assessment per topic</p> <p>1 summative assessment every 3 topics</p>	<p>define keywords or complete a worksheet.</p> <p>Each homework should take 30 - 45 minutes to complete.</p>
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KS4

Year 10 students

Year 10 follows the 2016 AQA Science specification. 10Sc1, 10Sc2 & 10Sc3 students will gain two GCSEs in Science by the end of Year 11. They will gain the AQA GCSE combined science: Trilogy qualification and will sit 6 exams at the end of year 11 each worth 70 marks lasting for 1 hour and 15 minutes.

Triple science students (10TRP) will gain 3 GCSEs by the end of year 11; GCSE Biology, GCSE Chemistry and GCSE Physics. They will sit 6 exams at the end of year 11 each worth 100 marks lasting for 1 hour and 45 minutes.

	CONTENT			
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	BIOLOGY	CHEMISTRY	PHYSICS	SKILLS	ASSESSMENT	HOMEWORK
Year 10	<ul style="list-style-type: none"> • B5 Communicable diseases • B6 Preventing and treating disease • B7 Non-communicable diseases • B8 Photosynthesis • B9 Respiration 	<ul style="list-style-type: none"> • C3 Structure and bonding • C4 Chemical calculations • C5 Chemical changes • C6 Electrolysis • C7 Energy changes 	<ul style="list-style-type: none"> • P1 Conservation and dissipation of energy • P2 Energy transfer by heating • P3 Energy resources • P4 Electric circuits • P5 Electricity in the home • P6 Molecules and matter • P7 Radioactivity 	<ul style="list-style-type: none"> • Health + Safety • Investigative skills • Required practical activities 	<p>Regular diagnostic book marking</p> <p>1 formative assessment per group of topics</p> <p>1 summative assessment every 3 topics</p>	<p>1 piece set each week to either define keywords or complete a worksheet.</p> <p>Each homework should take 30 - 45 minutes to complete.</p>

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Year 11 students

Year 11 follows the 2016 AQA Science specification. Students in classes 11Sc1, 11Sc2 and 11Sc3 study science for 9 lessons over a fortnight and the classes are set in ability groups. The triple science class (11TRP/11BSc1) have 15 lessons a fortnight.

11Sc1, 11Sc2 & 11Sc3 students will gain two GCSEs in Science by the end of Year 11. They will gain the AQA GCSE combined science: Trilogy qualification and will sit 6 exams at the end of year 11 each worth 70 marks lasting for 1 hour and 15 minutes.

Triple science students (11TRP/11BSc1) will gain 3 GCSEs by the end of year 11: GCSE Biology, GCSE Chemistry and GCSE Physics. They will sit 6 exams at the end of year 11 each worth 100 marks lasting for 1 hour and 45 minutes.

	CONTENT					
AQA	BIOLOGY	CHEMISTRY	PHYSICS	SKILLS	ASSESSMENT	HOMEWORK
Year 11	<ul style="list-style-type: none"> B10 The human nervous system B11 Hormonal coordination B12 Homeostasis in action (triple only) B13 Reproduction B14 Variation and evolution B15 Genetics and evolution (triple) B16 Adaptations, interdependence, and competition B17 Organising an ecosystem 	<ul style="list-style-type: none"> C8 Rates and equilibrium C9 Crude oil and fuels C10 Organic reactions (triple only) C11 Polymers (triple only) C12 Chemical analysis C13 The Earth's atmosphere C14 The Earth's resources C15 Using our resources (triple only) 	<ul style="list-style-type: none"> P8 Forces in balance P9 Motion P10 Force and motion P11 Force and pressure (triple only) P12 Wave properties P13 Electromagnetic waves P14 Light (triple only) P15 Electromagnetism P16 Space (triple only) 	<ul style="list-style-type: none"> Health + Safety Investigative skills Required practical activities 	<p>Regular diagnostic book marking</p> <p>1 formative assessment per group of topics</p> <p>1 summative assessment every 3 topics</p>	<p>1 piece set each week to either define keywords or complete a worksheet.</p> <p>Each homework should take 30 - 45 minutes to complete.</p>

	<ul style="list-style-type: none">• B18 Biodiversity and ecosystems					
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