Science Dept. Curriculum Map						
YEAR	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
7 (please note that dependi ng on teacher split, some topics may start slightly earlier or later)	<ul> <li>Blast off (introducti on to Key Stage 3 Science)</li> <li>Start May the force be with you 1 (forces &amp; motion)</li> </ul>	<ul> <li>Complete May the force be with you 1 (forces &amp; motion)</li> <li>It's Alive 1 (cells, microscop es, the human body, food)</li> </ul>	<ul> <li>Tumbling down (acids, alkalis &amp; rocks)</li> <li>HSW (Scientific investigation)</li> </ul>	<ul> <li>Hubble 2 bubble 2 (states of matter, atoms, elements, compounds)</li> </ul>	<ul> <li>Sparks will fly 1 (energy &amp; fuels)</li> <li>HSW (scientific investigation)</li> </ul>	<ul> <li>Green fingers 2 (ecology &amp; plant and animal adaptations)</li> </ul>
8 (please note that dependi ng on teacher split, some topics may start slightly earlier or later)	<ul> <li>May the force be with you 2 (space, gravity, pressure)</li> <li>Circle of life lessons 5-11 (plant reproducti on, genetics)</li> <li>Circle of life lessons 1-4 (animal reproducti on)</li> </ul>	<ul> <li>Fatal Reactions 1 (periodic table &amp; chemical reactions)</li> <li>HSW (Scientific Investigati on)</li> </ul>	<ul> <li>Fatal reactions         <ol> <li>(more chemical reactions, reactivity, polymers)</li> <li>Sparks will fly 2 (light, sound, electromagneti c spectrum</li> </ol> </li> </ul>	<ul> <li>It's Alive 2: L1-4 (skeleton, muscles, microbes)</li> <li>HSW (scientific investigation )</li> <li>It's Alive 2: L5-10 &amp; AfL (Drugs, lungs, heart)</li> </ul>	<ul> <li>It's Electrifying (electricity &amp; magnetism)</li> <li>Hubble bubble 1 (solubility, crystallisation, separating mixtures)</li> </ul>	<ul> <li>HSW (Scientific investigation)</li> <li>Green Fingers 1 (photosynthesis &amp; respiration)</li> </ul>
<b>9</b> (please note that			<ul> <li>BY2.1 – Organs an</li> <li>BY2.2 – Enzymes</li> </ul>	d organ systems	<ul> <li>BY3.1 – Communicable</li> <li>BY3.2 – Treatment</li> </ul>	

Science Dept. Curriculum Map							
dependi ng on teacher split and specialis m, some topics may start slightly earlier or later) Please note that the early entry group follows a different route)	<ul> <li>BY1.1 – Cells &amp; BY1.2 – Movement of molecules</li> <li>CY1.1 – Atomic structures &amp; CY1.2 Periodic table</li> <li>PY1.1 – Energy &amp; PY1.2 – Energy sources</li> <li>Order in term depends on the subject specialisms of the shared teachers for each group</li> </ul>	<ul> <li>CY2.1 – Bonding</li> <li>PY2.1 – Electricity</li> <li>Order in term depends on the subject specialisms of the shared teachers for each group</li> </ul>	<ul> <li>CY2.2 – Structures</li> <li>PY2.2 – Mains Electricity</li> <li>Order in term depends on the subject specialisms of the shared teachers for each group</li> </ul>				
10 Combine d Science (please note that dependi ng on teacher split and specialis m, some topics may start slightly earlier or later)	<ul> <li>BY3.1 – Communicable &amp; BY3.2 – Treatment</li> <li>CY4.1 – Chemical changes</li> <li>CY4.2 – Electrolysis</li> <li>PY3.1 – Particle model &amp; PY4.1 Atomic model and radiation</li> <li>Order in term depends on the subject specialisms of the shared teachers for each group</li> </ul>	<ul> <li>BY4.1 – Bioenergetics</li> <li>CY5.1 – Energy changes</li> <li>CY6.1 – Rates of reaction</li> <li>PY5.1 (COD) – Forces</li> <li>Order in term depends on the subject specialisms of the shared teachers for each group</li> </ul>	<ul> <li>BY5.1 – Homeostasis</li> <li>BY5.2 – Endocrine system</li> <li>CY7.1 – Crude oil</li> <li>PY5.2 (COD) – Motion</li> <li>Order in term depends on the subject specialisms of the shared teachers for each group</li> </ul>				

## Science Dept. Curriculum Map

		· · · · ·	
10 Triple			
Science	Biology	Biology	Biology
(Please	BY3.2 - Treatment	BY5.2 – Endocrine	BY7.1 – Communities & energy flow
that the early	BY4.1 – Biogenetics	BY5.3 – Homeostasis	
	BY5.1 – Nervous system		Chemistry
entry			CY7.2 – Organic Chemistry
follows a	Chemistry	Chemistry     Physics       CY7.1 - Crude oil     PY6.1 - Transverse & longitude       CY3.1 - Quant Chemistry     PY6.1 - Transverse & longitude	
different	CY4.2 – Electrolysis		Physics
route)	CY5.1 – Energy change		PY6.1 – Transverse & longitude waves
	CY6.1 – Rate of reaction		
	Physics		
	PY3.1 – Particle model		
	PY4.1 – Atomic model & radiation	Physics	
	PY4.2 – Uses of radiation	PY5.1 (BCP)- Forces	
		PY5.2 (BCP)– Motion	
			-
11			Revision and external exams
Combine	Biology	Biology	
d Science	BY7.1 Energy Flows	BY6.2 – Variation & BY6.3 – Changing organisms	
Science	BY7.2 – Human impact		
	BY6.1 – Genetics	Chemistry	
		CY9.1 – Atmosphere & CY10.1 – Using resources	
	Chemistry		
	CY8.1 – Analytical	Physics	
	Dhusia	 PY7.1 – Magnetism	
	Physics		
	PY6.1 - Waves		
		Order in term depends on the subject specialisms of the shared teachers for each group	
	Order in term depends on the subject		
	specialisms of the shared teachers for each		
	group		
11 Triple			Revision and external exams
Science	Biology	Biology	1
(Please			1

## Science Dept. Curriculum Map

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note that the early entry group follows a different	BY7.2 – Human impact		BY6.3 – Changing organisms		
	BY6.1 – Genetics				
	BY6.2 – Variation		Chemistry		
			CY10.2 – Earth's resources		
	Chemistry				
route)	CY8.1 – Analytical		Physics		
	CY9.1 – Atmosphere		PY8.1 – Space		
	CY10.1 – Using resource	CY10.1 – Using resources			
	Physics				
	PY6.2 - EMS	PY6.2 - EMS			
	PY7.1 – Magnetism	PY7.1 – Magnetism			
	PY7.2 – Magnetism advanced				
12 Biology (Please note that some topics may start slightly earlier or later)	Exchange in animals Foundations in Biology	Exchange in animals Cells	Immunology Biochemistry	Ecology Biochemistry	Classification Enzymes Evolution Cell division Excretion Respiration AS Biology external exams
12 Chemistr y (Please note that some topics may start slightly earlier or later)	1 (Development of practical skills in Chemistry) 2.1 Atoms and reactions 3.2 Physical chemistry		<ul> <li>4.1 Basic concepts and hydrocarbons</li> <li>4.2 Alcohols, haloalkanes and analysis</li> <li>2.2 Electrons, bonding and structure</li> <li>3.1 The periodic table</li> </ul>		Complete last topics Revision AS Chemistry external exam Start A2 content
12 Physics (Please note that some topics may start	Practical Skills Motion Forces in action Charge & current	Foundations of Physics Work, energy and power	Materials Newtons laws Waves 1 Quantum physics	Electrical circuits	Waves 2 AS Physics external exam

Science Dept. Curriculum Map						
slightly earlier or later)		Energy, power and resistance				
13 Biology (Please note that some topics may start slightly earlier or later)	Responses Homeostasis	Photosynthesis Nerves	Ecology and populations Endocrine system	Biotechnology Genetics	Exam preparation	External A-Level Biology exams
13 Chemistr y (Please note that some topics may start slightly earlier or later)	<ul> <li>5.1 Rates,</li> <li>equilibrium and</li> <li>pH</li> <li>6.1: Aromatic</li> <li>compounds,</li> <li>carbonyls and</li> <li>acids</li> </ul>	Complete 5.1 5.2: Energy Complete Complete 6.1 6.2: nitrogen compounds, polymers and synthesis	Complete 5.2 5.3: Transition elements Complete 6.2 6.3 Analysis	Complete 5.3 Complete 6.3	Exam preparation	External A-Level Chemistry exams
13 Physics (Please note that some topics may start slightly earlier or later)	Thermal physics Circular motion Oscillations Capacitors Electric fields Electromagnetism	Gravitational fields Astrophysics and cosmology	Capacitors Electric fields Electromagnetism	Nuclear and particle physics Medical imaging	Exam preparation	External A-Level Physics exams