

# Long Term Plan: Year 9 Triple Science

	W/B 10/09	W/B 17/09	W/B 24/09	W/B 01/10	W/B 08/10	W/B 15/10	W/B 29/10	W/B 05/11	W/B 12/11	W/B 19/11	W/B 26/11
Term 1	Biology Paper 1	Biology Paper 1	Biology Paper 1	Biology Paper 1	Biology Paper 1	Biology Paper 1	Biology Paper 1	Biology Paper 1	Biology Paper 1	Biology Paper 1	Chemistry Paper 1
	Unit 4.1 Cell Biology (B1) Required practical: Microscopy <b>Culturing microorganisms</b> Required practical: antiseptics/antibiotics	Required practical: Osmosis <b>Diffusion</b> <b>Active Transport.</b> <b>Lungs.</b>	Unit 4.2 Organisation (B2) <b>Digestive system. Enzymes</b>	Required Practical: Enzymes FoodTests	<b>Test and PIXL lesson Cell Biology OR Organisation</b>	<b>DCP1 The Heart. Circulatory System.</b>	Unit 4.3 Infection and response (B3) <b>White Blood Cell. Vaccinations</b>	Unit 4.3 Infection and response (B3) <b>Communicable Disease. Cancer,producing monoclonal antibodies and plant diseases</b>	Unit 4.4 Bioenergetics (B4) <b>Respiration. Response to Exercise</b>	Required practical: photosynthesis <b>Limiting Factors of Photosynthesis</b>	Unit 5.1 Atomic structure and the periodic table , transition metals(C1)
Term 2	Chemistry Paper 1	Chemistry Paper 1	Chemistry Paper 1	Chemistry Paper 1	Chemistry Paper 1	Chemistry Paper 1		Chemistry Paper 1	Physics Paper 1	Physics Paper 1	Physics Paper 1
	Unit 5.2 Bonding, structure and the periodic table (C2) <b>Covalent Bonding. Giant Covalent Structures, nanoparticles</b>	Unit 5.2 Bonding, structure and the periodic table (C2) <b>Ionic Bonding</b>	Unit 5.3 Quantitative chemistry (C3) <b>Moles. Changes in Mass. Atom economy, concentrations of solutions,volumes of gasses</b>	Unit 5.4 Chemical changes (C4) <b>Reactivity Series. Extracting metals. Titrations</b>	Required Practical Making 1)Salts 2)Electrolysis 3)titrations	<b>Test and PIXL lesson Bonding and Structure OR Quantitative Chemistry</b>	<b>DCP3</b>	Unit 5.5 Energy changes (C5) Required Practical Temperature Changes, <b>Chemical cells and fuel cells</b>	Unit 6.1 Energy (P1) <b>Renewable Energy Vs Non Renewable.</b>	Required practical: Specific heat capacity, 2)Insulators	Unit 6.2 Electricity (P2) <b>Series Circuits. Parallel Circuits , Static electricity</b>
Term 3		Physics Paper 1	Physics Paper 1	Physics Paper 1							
	Unit 6.3 Particle model of matter (P3) pressure in gasses	Required practical: Density <b>Calculating Density</b>	Unit 6.4 Atomic structure (P4) <b>Rutherfords Experiment, background radiation,nuclestr fission snd fusion</b>	<b>Test and PIXL lesson Particle Model of Matter OR Electricity DCP5</b>	<b>Revision for mocks</b>						





W/B 03/12	W/B 10/12	W/B 17/12
Chemistry Paper 1	Chemistry Paper 1	
Test and PIXL Infection and Response OR Atomic Structure	DCP2	
W/B 25/03	W/B 01/04	W/B 08/04
Physics Paper 1	Physics Paper 1	Physics Paper 1
Test and PIXL Energy Changes OR Energy	DCP4 Required practical: <b>Resistance and Resistance of a Wire</b>	Required practical: I-V characteristic s <b>Plugs</b>