

YR.10 ENTRY	Science (<i>In bold* – Yr.9 NC/ENTRY</i>)							
	Term 1 & 2	FLEX	Term 3	FLEX	Term 4	FLEX	Term 5 & 6	
Biol 	Biology 1B – Health, disease, & the development of medicines - Physical barriers against infection - Chemical barriers against infection - White blood cells & the immune system - Antibiotics - Medicine development		Biology 1B – Health, disease, & the development of medicines - Non-communicable diseases - Diet, exercise & BMI - The effects of smoking - Treatment of cardiovascular disease Exam preparation		Biology 2A – Plants and ecosystems - Describe photosynthetic organisms - Describe photosynthesis as an endothermic process. - Describe/explain the effects of the limiting factors of photosynthesis - Diffusion/osmosis - Active transport		Biology 2A – Plants and ecosystems - Structure/adaptation of root hair cell - Xylem/phloem – structure - Effects of temp/water/light on organisms - Benefits of conservation & reforestation - Carbon cycle Exam preparation	
	Chem 	Chemistry 1B – Separating mixtures, breaking down substances, acids and metals Reactivity series* Smelting with carbon* Electrolysis of aluminium* Materials* Recycling of metals* - Testing for gases – H₂ & CO₂ Exam preparation		Chemistry 2A – Chemical reactions: patterns, energy and rates of reaction - Group 1 - Structure & reactivity - Group 7 – Structure & reactivity - Group 8 – Structure, reactivity & uses - Variables that effect reaction rates - Temp, concentration, & surface area		Chemistry 2A – Chemical reactions: patterns, energy and rates of reaction - Exothermic & endothermic - Examples of the above including Solubility, neutralisation & combustion - Catalysts - biological enzymes Exam preparation		2B – Chemistry in our world: fuels and the Earth's atmosphere - Hydrocarbons & crude oil - Fractional distillation - Uses of crude oil - Physical properties of crude oil - Combustion of fuels - Incomplete combustion - Carbon monoxide - Acid rain/causes & effects
	Phys 	Physics 1B – Waves and Radiation - EMS - effects of exposure - EMS – uses - Atomic structure theory - Radioactivity – α, β & Ω - Radioactive decay - Effects of radiation on the body - Minimisation of effects Exam preparation		Physics 2A – Electricity and magnets - Electric circuits - Series v parallel - Charge - Volt meter/Ammeters - Resistors – $V = I \times R$ - Power calculations - ac/dc		Physics 2A – Electricity and magnets - Magnets intro - Magnetic substances - Magnetic fields - Electromagnets - Variables effecting the strength of a magnet. Exam preparation		Physics 2B – Energy and particles - Energy transfer & store - Work done calculations - Power – calculations - Efficiency calculations - Particle theory - States of matter - Transition of states - Density