

YR.11 GCSE	Science					
	Term 1 & 2	FLEX	Term 3	FLEX	Term 4	Term 5
Biol 	Topic 6 – Plant Structure/Function - Structure/adaptation of root hair cell - Xylem/phloem – structure - Transpiration & stomata - Translocation - Environmental factors and water uptake - Rate calculations for transpiration Assessment preparation <u>MOCK PREP – MOCK (November)</u>		Topic 7 – Animal coordination, Control & Homeostasis - Hormones –production/transport Adrenalin – effects on the body Thyroxine – effects on the body - Menstrual cycle Interaction of female hormones - Hormonal contraception & Barrier method Hormonal therapy - Homeostasis – insulin Regulation of glucose by glucagon - Diabetes – type 1 & 2 - BMI – type 2 diabetes Assessment preparation <u>MOCK PREP – MOCK (March)</u>		Topic 8 – Exchange & Transport - Transportation of substances - Exchange systems - Alveoli adaptation - Blood – structure - Blood vessels structure/function - Heart & circulatory system - Respiration – aerobic/anaerobic *CORE PRACTICAL – respiration - Calculations using cardiac equation Assessment preparation <u>MOCK PREP – MOCK (March)</u> <u>MOCK PREP – MOCK (March)</u> <u>Summer revision</u>	REVISION Prep
Chem 	Topic 8 – Fuels & Earth Science - Hydrogen as a fuel - Cracking – uses & products - Changes in the composition of the atmosphere over time - Evolution of O₂ gas - Green House gases– causes & effects Assessment preparation <u>MOCK PREP – MOCK (November)</u>					REVISION Prep
Phys 	Topic 12 Magnetism & the Motor Effect - Magnets intro including field lines - Current & its magnetic effect - Factors effecting the strength of the field - Solenoids Interactions of magnetic fields Fleming’s left hand rule Use the $F = B \times I \times l$ Electromagnetic induction → Topic 13 Assessment preparation <u>MOCK PREP – MOCK (November)</u>		Topic 14 Particle Model - Kinetic theory → link to CHEM - Use density equation *CORE PRACTICAL – densities - States of matter transition - Specific heat capacity - Latent heat calculations - Thermal insulation *CORE PRACTICAL – specific heat capacity - Gas temp/pressure correlation Assessment preparation		Topic 15 Forces & Matter - Elastic distortion - Use the equation $F = kx$ - Relationships between linear /non-linear. - Calculations on work done stretching a spring *CORE PRACTICAL – Hook’s law Assessment preparation <u>MOCK PREP – MOCK (March)</u>	REVISION Prep