

## Science – 11X1 (Biology and Physics) - Mr Franklin - Year 11 Precision Planning

Week starting	Topic(s) to cover	Lessons	Homework set revision topics set (taken directly from the revision to-do list)	Period 6 Intervention	Weekend masterclass (only if invited)
<b>4<sup>th</sup> March Week A</b>	P6 – Waves.	L1 – Ripple Tank Required Practical L2 – Reflection and Refraction L3 – Sound Waves L4 – Waves for Detection (Ultrasound)	<input type="checkbox"/> B2 – Organisation <input type="checkbox"/> P2 – Electricity <input type="checkbox"/> Past paper – Physics 1	C3 – Quantitative Chemistry (area for improvement from mocks)	Equations (9 <sup>th</sup> March)
<b>11<sup>th</sup> March Week B</b>	P6 – Waves.	L1 – EM Spectrum L2 – Properties and uses of EM waves L3 – Infrared radiation (absorbed or radiated?) Required Practical L4 – Lenses L5 - Filters	<input type="checkbox"/> B3 – Infection and response <input type="checkbox"/> P3 – Particle model of matter <input type="checkbox"/> Past paper – Biology 2	P5 – Forces (area for improvement from mocks)	N/A
<b>18<sup>th</sup> March- A (Art photog exams)</b>	P6 – Waves.  B7 – Ecology.	L1 – Black body radiation (P6) L2 – Communities, ecosystems, and competition (B7) L3 – Biotic and abiotic factors (B7) L4 – Adaptations (B7)	<input type="checkbox"/> B4 - Bioenergetics <input type="checkbox"/> P4 – Atomic structure <input type="checkbox"/> Past paper – Physics 2	Biology Paper 1 Required Practicals	Percentage calculations and rates (23 <sup>rd</sup> March)
<b>25<sup>th</sup> March- B (closed Friday) Week B (Art/Photog exams)</b>	B7 – Ecology.	L1 – Food chains, including predator-prey cycles. L2 – Estimating population size of a species (sampling techniques) (B7 required practical) L3 – The carbon cycle L4 – Decomposition	<input type="checkbox"/> B5 – Homeostasis and response <input type="checkbox"/> P5 – Forces <input type="checkbox"/> Past paper – Biology 1	Chemistry Paper 1 Required Practicals	Drawing graphs (30 <sup>th</sup> March)  Interpreting graphs (13 <sup>th</sup> April)
Easter School Interventions					
<b>15<sup>th</sup> April Week A</b>	B7 – Ecology.	L1 – Investigating the effect of temperature on the rate of decay of milk using pH change (B7 required practical). L2 – Impact of environmental change on distribution of a species L3 – What is biodiversity, what reduces it and how do we maintain it? L4 – Trophic levels and biomass pyramids	<input type="checkbox"/> B6 – Inheritance, variation, and evolution <input type="checkbox"/> P6 – Waves <input type="checkbox"/> Past paper – Physics 1	Physics Paper 1 Required Practicals	Biology Paper 1 Required Practicals (20 <sup>th</sup> April)
<b>22<sup>nd</sup> April Week B</b>	B7 – Ecology.  P7 – Magnets and electromagnetism.	L1 – Farming techniques and the role of biotechnology (B7) L2 – Magnets and Magnetic fields (P7) L3 – Electromagnetism and the right-hand rule (P7) L4 – The motor effect (Fleming’s left-hand rule) (P7) L5 - Magnetic flux density equation (P7)	<input type="checkbox"/> B7 – Ecology <input type="checkbox"/> P7 – Magnetism and electromagnetism <input type="checkbox"/> Past paper – Biology 2	Biology Paper 2 Required Practicals	N/A
<b>29<sup>th</sup> April Week A</b>	P7 – Magnets and electromagnetism.	L1 – How do electric motors and loudspeakers work? L2 – Induced potential and the generator effect. L3 – Microphones L4 – Transformers (and equation).	<input type="checkbox"/> Weakest Biology unit from a past paper you have sat. <input type="checkbox"/> P8 – Space <input type="checkbox"/> Past paper – Physics 2	Chemistry Paper 2 Required Practicals	Chemistry Paper 1 Required Practicals (4 <sup>th</sup> May)
<b>6<sup>th</sup> May (Bank Holiday Monday) Week B</b>	P8 – Space physics.	L1 – Our solar system L2 – The life cycle of a star L3 – Orbital motion, natural and artificial satellites L4 – Red-Shift	<input type="checkbox"/> Weakest Biology unit from a past paper you have sat. <input type="checkbox"/> Weakest Physics unit from a past paper you have sat.	Physics Paper 2 Required Practicals	Physics Paper 1 Required Practicals (11th May)