

Year 11 Science Map – Trilogy Higher

We follow the AQA trilogy science specification. All points refer to syllabus points. If students are higher tier they have 3 teachers, one for each specialty. In a two week cycle they will have chemistry 4 times and physics and biology 3 times each.

Biology (3 per fortnight)	Week 1-9		Week 13-23		Week 24 - 30
Topic	B5 – Homeostasis and response <ol style="list-style-type: none"> 1. 4.5.1 Homeostasis 2. 4.5.2 The human nervous system 3. 4.5.3 Hormonal coordination in humans <ol style="list-style-type: none"> a. 4.5.3.1 Human endocrine system Content b. 4.5.3.2 Control of blood glucose concentration c. 4.5.3.3 Hormones in human reproduction d. 4.5.3.4 Contraception e. 4.5.3.5 The use of hormones to treat infertility f. 4.5.3.6 Feedback systems 	Mocks	B6 – Inheritance, variation and evolution <ol style="list-style-type: none"> 1. 4.6.1 Reproduction 2. 4.6.2 Variation and evolution 3. 4.6.3 The development of understanding of genetics and evolution 4. 4.6.4 Classification of living organisms 		Revision for GCSE's on all topics

Chemistry (4 per fortnight)	Week 1-8		Week 13-18		Week 19-23		Week 24 - 30
Topic	C6 Rates and equilibria <ol style="list-style-type: none"> 1. 5.6.1 Rate of reaction <ol style="list-style-type: none"> a. 5.6.1.1 Calculating rates of reactions b. 5.6.1.2 Factors which affect the rates of chemical reactions c. 5.6.1.3 Collision theory and activation energy d. 5.6.1.4 Catalysts 2. 5.6.2 Reversible reactions and dynamic equilibrium <ol style="list-style-type: none"> a. 5.6.2.1 Reversible reactions b. 5.6.2.2 Energy changes and reversible reactions c. 5.6.2.3 Equilibrium d. 5.6.2.4 The effect of changing conditions on equilibrium 	Mocks	C7 Organic Chemistry <ol style="list-style-type: none"> 1. 5.7.1 Carbon compounds as fuels and feedstock <ol style="list-style-type: none"> a. 5.7.1.1 Crude oil, hydrocarbons and alkanes b. 5.7.1.2 Fractional distillation and petrochemicals c. 5.7.1.3 Properties of hydrocarbons d. 5.7.1.4 Cracking and alkenes C8 Chemical Analysis <ol style="list-style-type: none"> 1. 5.8.1 Purity, formulations and chromatography <ol style="list-style-type: none"> a. 5.8.1.1 Pure substances b. 5.8.1.2 Formulations c. 5.8.1.3 Chromatography d. 2. 5.8.2 Identification of common gases 		C9 Atmosphere review <ol style="list-style-type: none"> 1. 5.9.1 The composition and evolution of the Earth's atmosphere 2. 5.9.2 Carbon dioxide and methane as greenhouse gases 3. 5.9.3 Common atmospheric pollutants and their sources 4. C10 Earths resources <ol style="list-style-type: none"> 1. 5.10.1 Using the Earth's resources and obtaining potable water <ol style="list-style-type: none"> a. 5.10.1.2 Potable water b. 5.10.1.4 Alternative methods of extracting metals 2. 5.10.2 Life cycle assessment and recycling 		Revision for GCSE's on all topics

Physics (3 per fortnight)	Week 1-9		Week 13-19	Week 20-23	Week 24 - 30
Topic	P5 part 2 – Forces 1. 6.5.4 Forces and motion <ol style="list-style-type: none"> a. 6.5.4.1 Describing motion along a line b. 6.5.4.2 Forces, accelerations and Newton's Laws of motion c. 6.5.4.3 Forces and braking d. 6.5.5 Momentum 	Mocks	P6 Waves 1. 6.6.1 Waves in air, fluids and solids <ol style="list-style-type: none"> a. 6.6.1.1 Transverse and longitudinal waves b. 6.6.1.2 Properties of waves 2. 6.6.2 Electromagnetic waves <ol style="list-style-type: none"> a. 6.6.2.1 Types of electromagnetic waves b. 6.6.2.2 Properties of electromagnetic waves c. 6.6.2.4 Uses and applications of electromagnetic waves 	P7 Magnetism and electromagnetism 1. 6.7.1 Permanent and induced magnetism, magnetic forces and fields <ol style="list-style-type: none"> a. 6.7.1.1 Poles of a magnet b. 6.7.1.2 Magnetic fields c. 2. 6.7.2 The motor effect <ol style="list-style-type: none"> a. 6.7.2.1 Electromagnetism b. 6.7.2.2 Fleming's left-hand rule c. 6.7.2.3 Electric motors 	Revision for GCSE's on all topics