

Year 11 Science Map – Trilogy Foundation

We follow the aqa combined science: trilogy syllabus for KS4. In year 11 we complete the paper two topics, all topics covered correspond to the syllabus point. Students will have 2 teachers, each teacher will see them 5 lessons a two week cycle.

Teacher 1-5 per fortnight	Week 1-6	Week 7-8	Week 9 - 12	Week 13-19	Week 20-23	Week 24 - 30
Topic	C6 Rates and equilibria 1. 5.6.1 Rate of reaction <ol style="list-style-type: none"> 5.6.1.1 Calculating rates of reactions 5.6.1.2 Factors which affect the rates of chemical reactions 5.6.1.3 Collision theory and activation energy 5.6.1.4 Catalysts 2. 5.6.2 Reversible reactions and dynamic equilibrium <ol style="list-style-type: none"> 5.6.2.1 Reversible reactions 5.6.2.2 Energy changes and reversible reactions 5.6.2.3 Equilibrium 	C7 Organic Chemistry 1. 5.7.1 Carbon compounds as fuels and feedstock <ol style="list-style-type: none"> 5.7.1.1 Crude oil, hydrocarbons and alkanes 5.7.1.2 Fractional distillation and petrochemicals 5.7.1.3 Properties of hydrocarbons 5.7.1.4 Cracking and alkenes 	Revision and Mock Exams	C8 Analysis 1. 5.8.1 Purity, formulations and chromatography <ol style="list-style-type: none"> 5.8.1.1 Pure substances 5.8.1.2 Formulations 5.8.1.3 Chromatography 5.8.2 Identification of common gases P6 Waves 6.6.1 Waves in air, fluids and solids <ol style="list-style-type: none"> 6.6.1.1 Transverse and longitudinal waves 6.6.1.2 Properties of waves 6.6.2 Electromagnetic waves <ol style="list-style-type: none"> 6.6.2.1 Types of electromagnetic waves 6.6.2.2 Properties of electromagnetic waves 6.6.2.4 Uses and applications of electromagnetic waves 	C9 Atmosphere review 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 C10 Earths resources 1. 5.10.1 Using the Earth's resources and obtaining potable water <ol style="list-style-type: none"> 5.10.1.2 Potable water 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

Teacher 2 - 5 per fortnight	Week 1-5	Week 6-8	Week 9 -12	Week 13-21	Week 22-23	Week 24 - 30
Topic	B5 – Homeostasis and response 1. 4.5.1 Homeostasis 2. 4.5.2 The human nervous system 3. 4.5.3 Hormonal coordination in humans 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	P2 – Forces and motion 1. 6.5.4 Forces and motion 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 2. 6.5.5 Momentum	Revision and Mock Exams Feedback from mocks	B6 – Inheritance, variation and evolution 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	P7 Magnetism and electromagnetism 1. 6.7.1 Permanent and induced magnetism, magnetic forces and fields a. 6.7.1.1 Poles of a magnet b. 6.7.1.2 Magnetic fields c. 2. 6.7.2 The motor effect a. 6.7.2.1 Electromagnetism	Revision for GCSE's on all topics