

We follow the aqa combined science: trilogy syllabus for KS4. In year 10 we complete the paper one 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.

Wk Begin	5 th Sep – 14 th Oct		21 st Oct – 18 th Nov		25 th Nov – 27 th Jan		3 rd Feb - 24 th Mar		12 th May – 21 st Jul
Topic	C2 Atoms review and structure and bonding C2 structure and bonding 1. 5.2.1 Chemical bonds, ionic, covalent and metallic 2. 5.2.2 How bonding and structure are related to the properties of substances 3. 5.2.3 Structure and bonding of carbon	Assessment week	P3 Particle Model of Matter P3 Particle Model of Matter 1. 6.3.1 Changes of state and the particle model 2. 6.3.2 Internal energy and energy transfers 3. 6.3.3 Particle model and pressure	Assessment week	P4 Atomic Structure 1. 6.4.1 Atoms and isotopes <ul style="list-style-type: none"> a. History of the atom b. Atomic structure 2. 6.4.2 Atoms and nuclear radiation <ul style="list-style-type: none"> a. Half life b. Nuclear radiation equations c. Alpha, beta , gamma radiation C4 Chemical Reactions 1. 5.4.1 Reactivity of metals <ul style="list-style-type: none"> o Metal oxides o Reactions of metals with water 2. 5.4.2 Reactions of acids <ul style="list-style-type: none"> o Making salts o Neutralisation o Acids and Alkalis 	Assessment week	C4 part 2 1. 5.4.3 Electrolysis <ul style="list-style-type: none"> o Predicting what will be produced at the anode and cathode in solution and molten o Constructing half equations C3 – Quantitative chemistry 2. 5.3.1 Chemical measurements, conservation of mass and the quantitative interpretation of chemical equations C5 – Energy changes in chemical reactions 3. 5.5.1 Exothermic and endothermic reactions <ul style="list-style-type: none"> o Reaction profiles o Overall energy calculations 	Mocks	P2 electricity– part 2 1. 6.2.4 Energy transfers <ul style="list-style-type: none"> a. National grid b. Power c. Energy transfer in everyday devices P5 – part 1 – Forces and their interactions 1. 6.5.1 Forces and their interactions 2. 6.5.2 Work done and energy transfer 3. 6.5.3 Forces and elasticity

Teacher 2	Week 1-8		Week 9-16		Week 17-23		Week 24-26		Week 31-40
Topic	B2 – Organisation 1. 4.2.1 Principles of organisation 2. 4.2.2 Animal tissues, organs and organ systems a. Digestion b. Heart and circulation c. Cancer 3. 4.2.3 Plant tissues, organs and systems	Assessment week	B3 – Infection and Response 1. 4.3.1 Communicable diseases a. Bacteria b. Protists c. Virus d. Fungus e. Human defence f. Vaccination 1. Drug discovery	Assessment week	P2 part 1 - Electricity 1. 6.2.1 Current, potential difference and resistance 2. 6.2.2 Series and parallel circuits 3. 6.2.3 Domestic uses and safety 4.	Assessment week	B4 – Bioenergetics (pt 1) 1. 4.4.1 Photosynthesis a. Equation b. Rate of photosynthesis c. Uses of glucose 2.	Mocks	B4 – Bioenergetics (Pt 2) 1. 4.4.2 Respiration a) Aerobic and anaerobic b) Response to exercise c) Metabolism B7 – Ecology 1. 4.7.1 Adaptations, interdependence and competition 2. 4.7.2 Organisation of an ecosystem 3. 4.7.3 Biodiversity and the effect of human interaction on ecosystems