

Stage 2 Chemistry Semester 1 & 2 Overview 2019

Teacher: Rachel Pillar

Weeks	Topic	Summative Assessments
Term 1		
1 - 7	Analytical Techniques & Applications <ul style="list-style-type: none"> • Volumetric analysis • Chromatography • Equilibrium • Ion exchange in water and soil • Atomic spectroscopy 	Investigations Folio Practical Investigation 1: Volumetric Analysis to Determine Beverage Acidity (10 %) Practical conducted in Week 4 Report Due Tuesday 26th February, Week 5
7 - 10	Energy & The Environment <ul style="list-style-type: none"> • Energy production • Photosynthesis & respiration • Global Warming & Climate Change • Photochemical Smog 	Skills and Applications Task 1: Carbon Emissions Infographic (10 %) Due Tuesday 26th March, Week 9
10 - 11	Organic & Biological Chemistry Part 1 <ul style="list-style-type: none"> • Structural formulae, nomenclature & physical properties of organic compounds • Alcohols • Bioethanol, combustion & enthalpy calculations • Amines 	
Term 2		
1 - 3	Organic & Biological Chemistry Part 1 continued... <ul style="list-style-type: none"> • Aldehydes & Ketones • Carbohydrates • Carboxylic acids 	Investigations Folio Practical Investigation 2: Effect of changing a reaction condition on the rate of fermentation of a carbohydrate. (10 %) Practical Design & Planning in Weeks 4 & 5 Practical Conducted in Week 7 Report Due Wednesday 19th June, Week 8
4 - 7	Managing Chemical Processes <ul style="list-style-type: none"> • Rates of reactions (kinetics) • Equilibrium & yield (thermodynamics) • Water treatment & soils – applications of dynamic equilibrium • Optimising production 	Skills and Applications Task 2: Test on parts of Topics 1, 3 & 4. Short Answer questions. (10 %) Due Tuesday 28st May, Week 5
7 - 10	Organic & Biological Chemistry Part 2 <ul style="list-style-type: none"> • Esters • Triglycerides & biodiesel • Amides • Proteins 	Skills and Applications Task 3: Test on parts of Topics 2, 3 & 4. Short Answer questions. (10 %) Due Wednesday 3rd July, Week 10
Holidays	Mid-Year Exam Revision (Formative)	

