



YEAR 11 CHEMISTRY WORK PLAN: Semester 1, 2017 – Mr M Polkinghorne

UNIT	TERM 1 TOPICS	ASSESSMENT	DUE DATE
1 In the Beginning – - Chemistry Matters	Week 1 Why study chemistry? Branches of chemistry. The scientific method. What is matter? States of Matter – classification. Week 2 Physical /Chemical changes. Observing and describing change. Compounds & Mixtures. FeS prac Week 3 Mixtures– homogeneous/heterogeneous/ simple separation techniques – magnetism, filtration/evaporation, distillation, sublimation, separating funnel. Gravimetric Analysis of Mixture X = Fe, NaCl and sand SiO ₂ Week 4 Chromatography - Rf values & analysis. Review. Week 5 Atomic Structure and reactivity of metals v non-metals, Ionic bonding. Week 6 Covalent bonding / Network solids –diamond/graphite. Week 7 Metallic bonding - samples/props/uses/physical properties of metals in relation to bonding model, alloys / uses / problems. Week 8 Chemical formulae / Naming compounds Balancing equations. Week 9 Test Week 10 Begin Unit 2	Formative Task Gravimetric Analysis of a Mixture X SA – Supervised Assessment 1 Part A (KCU, EC) 60 minutes SA – Supervised Assessment 1 Part B (KCU, EC) 60 minutes	Week 3 Wednesday 8 th Feb 2 groups 11A and 11B Week 5 Wednesday Weds/Thurs 22/23 February Term 2 Week 2 Mon 24 th April L 2 & 3
UNIT	TERM 2 TOPICS	ASSESSMENT	DUE DATE
2 Getting Down to Earth – Metals & Mining	Week 1 Intro. types of reactions involving metals. Reactions of metals with oxygen/ ionic/basic oxides/ oxidation. Simple REDOX theory - OIL RIG Week 2 Reactivity series / Reactions of metals with water (K, Na, Ca, Mg) Corrosion of metals. Reactions of metals with acids. Ionic equations. Week 3 Ionisation Energy theory in relation to reactivity of metals Week 4 Extraction of metals– smelting and electrolysis Week 5 The corrosion of metals – in particular the rusting of iron Week 6 EEI Week 7 EEI Week 8 EEI Week 9 EEI Report writing Week 10 EEI report due.	EEI Task 2–Extended Experimental Investigation – Investigating the Corrosion of Metals (KCU,IP,EC) 6 weeks:	Week 3 Given Out – Wednesday May 3 rd . Week 8 Draft Due - Wednesday June 7 th . Week 9 Final EEI Due Wednesday 14 th June

This work plan was last updated on Friday, 3 March 2017. The contents are subject to change – students will be advised in advance of any changes - regularly check for updates.