

	YEAR 11 CHEMISTRY WEEKLY PLAN 2010	Work Requirements
Semester 1	Unit 1: The Big Ideas of Chemistry	
Term 1		
Week 1 1/2 – 5/2	<u>Chapter 1 Kinetic Theory of Matter</u> <ul style="list-style-type: none"> States of Matter Pure substances, Mixtures Chemical Reactions Balancing equations 	
	Area of Study 1: The Periodic Table	
Week 2 8/2 – 12/2	<u>Chapter 2 Atomic Theory</u> <ul style="list-style-type: none"> Atomic theory development Electrons, Bohr model Emission Spectra, Quantum mechanics Electronic configuration 	Prac 1.1 Types of chemical reactions Worksheet 2.2 Using nuclide symbol notation
Week 3 15/2 – 19/2	<u>Chapter 3 Periodic Table</u> <ul style="list-style-type: none"> Periodic table development Radioactive/ synthetic elements Synchrotron The Periodic table trends; groups and periods 	Prac 2.2 Flame tests Worksheet 2.3 Electron configurations Worksheet 3.2 Periodic Table quiz. Test: The Periodic Table (Ch 1, 2 & 3)
Week 4 22/2 – 26/2	<u>Chapter 4 Atomic mass and the Mole concept</u> <ul style="list-style-type: none"> Mass spectrometry RIM, RAM, RMM The mole concept: $n = \frac{m}{M} = \frac{N}{N_A}$ 	Prac 3.1 Periodic Table overview. Worksheet 4.3 Mole calculations. Prac 4.3 Determination of percentage composition and empirical formula of magnesium oxide
Week 5 1/3 – 5/3	<ul style="list-style-type: none"> Empirical formulae Molecular formulae 	Test: The Mole concept (Ch 4)
	Area of Study 2 - Materials	
Week 6 9/3 – 12/3	<u>Chapter 5 Ionic bonding</u> <ul style="list-style-type: none"> Ionic bonds Crystal structures 	Prac 5.1 Models of ionic solids Worksheet 5.1 Formation of ionic compounds
Week 7 15/3 – 19/3	<ul style="list-style-type: none"> Properties of Ionic compounds Naming Ionic compounds 	Prac 5.2 Growing crystals Worksheet 5.3 Electrovalencies