Wellington School		nd substances, to develop practical skills, to develop skills to develop chemical literacy to allow students to make se	
Year 10 Chemistry	Term 1 September to December C0 C1a C1b Key Concepts and C2 States of Matter C1c Quantitative Chemistry	Term 2 January to Easter C3a Acids C3b Electrolysis Review of C0 C1a C1b Key Concepts and C2 States of Matter Triple C5c Cells and Equilibria	Term 3 – Easter-SummerC4a Metals and their ExtractionTriple C5a Transition metals, alloys andcorrosionTriple C5b Quantitative Chemistry
<b>Knowledge</b> (facts, information, concepts and key terminology)	Learns hazards symbols for chemical and precautions Learn chemical formulas of substances Describe the structure of the atom and the development of the periodic table Describe changes of state Describe separation techniques for different mixtures and how water from different sources is made potable	Describe the differences between acidic, neutral and alkaline solutions in terms of pH, identify and control their hazards as well as use various indicators to identify them Recall chemical reaction patterns that produce salts Describe practical methods to make salts in 3 different ways Describe the practical laboratory procedure of electrolysis reactions Describe uses of electrolysis to make useful products and purify copper	Revision based lessons to recap Knowledge including Yr 10 material and specific gaps identified by EOU Assessments List properties of metals List ways of extracting metals Corrosion and extraction of metals in terms of oxidation and reduction Describe a use of ammonia The terms "reversible reaction" and "dynamic
	Describe how ionic , covalent and metallic boding arises	TRIPLE- Describe chemical pathways to produce a substance on a large scale. Describe uses of fuel cells	equilibrium" TRIPLE: Electroplating, Sacrificial Protection
Understanding (ability to connect and synthesise knowledge within a context)	Relate the properties of substances to the type of structure and boding present Justify reasons for selecting a particular practical procedure to separate different mixtures.	Justify reasons for selecting a particular practical procedure to produce a salt as well as the separate different mixtures. Use data from observations of chemical tests to identify the products of electrolysis reactions	RevLink properties of metals to their uses Interpret data about metal reactions from the reactivity series Apply patterns on chemical reactions of metals to new situations HT-Predict how changing temp, pressure and conc. can affect the position of equilibrium
Skills (successful application of knowledge and understanding to a specific task)	Interpret the periodic table and he conventions that are used for equations, charge and chemical formulae Calculate relative formula mass and concentration and empirical formula (HT- Calculate reacting masses and moles	Represent any chemical reactions studied using word, balanced and ionic equations. (HT) Half equations(HT)	Be able to interpret information about properties and uses of metals Calculate relative formula mass and concentration and empirical formula (HT- Calculate reacting masses and moles) TRIPLE- Calculate concentrations from titration data, atom economy and molar gas volumes
Formal Assessments (those done by all/vast majority of the cohort)	End of topic tests Mock assessing content taught in Year 10 Verbal feedback	Partial Paper 1 Mock exam January	Partial Paper 1 Mock exam May
By the end of the year students on co	ourse for at least a grade 5 will		
Understand hazard symbols of substa Use chemical equations can be used Be able the interpret information on Describe and select suitable techniqu	atom and have knowledge of the subatomic particles the ances and be able to take suitable precautions e.g using a to represent chemical reactions e.g combustion the periodic table about elements and apply patterns ab ues to separate pure substances from mixtures. ostances arise from their structure and bonding.	icids to make salts.	