

Wesgreen International School | Inspiring Excellence, Empowering Global Minds

Programme of Study – Year 11 Chemistry 2023-24 (Cambridge) 595428-2023-2025-syllabus.pdf (cambridgeinternational.org)

	Theme	Overview of key learning to take place	How learning will be assessed
Term 1	Unit 9: Metals	 9.5 Corrosion of metals I can state the conditions required for the rusting of iron and steel to form hydrated iron (III) oxide I can state some common barrier methods, including painting, greasing and coating with plastic I can describe the use of zinc in galvanising as an example of a barrier method and sacrificial protection. I can explain sacrificial protection in terms of the reactivity series and in terms of electron loss. 9.6 Extraction of metals I can describe the ease in obtaining metals from their ores, related to the position of the metal in the reactivity series I can describe the extraction of iron from hematite in the blast furnace. I can describe the extraction of aluminum from purified bauxite / aluminum oxide 	Examples of Formative Assessment to be used this term: In class peer and self-assessment of extended answer questions Homework questions Summative assessment: Baseline Assessment Mid Term assessment Unit 9 and 7 End of term assessments (Unit 1, 2,3.1, 4,5,6,7,8,9,10,11 and 12)
Term 1	Unit 7 – Acid, Bases and Salts	 7.1 The characteristic properties of acids and bases I can define acids and bases in terms of proton transfer, limited to aqueous solutions I can describe the meaning of weak and strong acids and bases 7.2 Types of oxides I can classify oxides as either acidic or basic, related to metallic and non-metallic character I can classify other oxides as neutral or amphoteric 7.3 Preparation of salts I can describe the method of preparation, separation and purification of salts 	CHEATING

		 I can describe the preparation of insoluble salts by precipitation I can suggest an appropriate method of making a given salt from a suitable starting material, given appropriate 12.3 Identification of ions and gases I can describe the various tests to identify the positive metal ions/ cations I can describe the test to identify the anions 	DIRECTAMA
Term 1	Unit 11 Organic Chemistry	11.1: Names of compounds	CREATER TO THE PROPERTY OF THE

14.7: Carboxylic Acids	
 I can describe the formation of carboxylic acids 	
I can explain ethanoic acid as weak acid	
 I can explain the reaction of carboxylic acid with alcohols to 	Q
give esters	META-THINNING

	Theme	Overview of key learning to take place	How learning will be assessed
Term 2	Unit 11.8	 11.8: Polymers I can define the terms associated with polymerisation I can understand that polymers have different linkages I can explain the differences between condensation and addition polymerization. I can deduce the structure of the polymer product from a given alkene and vice versa I can describe the formation of nylon (a polyamide) and polyethylene terpthalate - PET (a polyester) by condensation polymerization. I can describe the pollution problems caused by non biodegradable plastics I can describe the structure of protein, starch I can describe the hydrolysis of proteins to amino acids and starch to glucose I can describe, in outline, the usefulness of chromatography in separating and identifying the products of hydrolysis of carbohydrates and proteins 	Examples of Formative Assessment to be used this term: In class peer and self-assessment of extended answer questions Homework questions Summative assessment: Mid Term assessment Unit 11 and 3 Mock Examination – Complete Syllabus
Term 2	Unit 3: Stoichiometry	 3.3: The Mole Concept I can define the mole and the Avogadro constant I can use the molar gas volume, taken as 24 dm3 at room temperature and pressure I can calculate stoichiometric reacting masses, volumes of gases and solutions, and concentrations of solutions expressed in g / dm3 and mol / dm3. I can do calculations involving the idea of limiting reactants may be set. 	ANALYSING

		 I can calculate empirical formulae and molecular formulae I can calculate percentage yield and percentage purity 	
Term 2	Revision	Revision of past paper and preparation for the Mock examination	HARD WORKING