Year 13 Long Term Scheme of Learning 2025-26



Subject: Chemistry

Date	Exams/ Assess	Uni Teacher 1 (5)	it(s) Teacher 2 (4)
01/09/2025	A33C33	Thermodynamics	Kinetics
		Enthalpy changes in ionic compounds	Methods of determining rate of reaction
08/09/2025		Born-Haber cycles Perfect ionic model	Required Practical 7a. An 'iodine clock' experiment – initial rate method.
15/09/2025		Enthalpy of solution	Required Practical 7b. Measuring the rate of
22/09/2025		Feasible reactions	reaction by a continuous monitoring method.
29/09/2025		EntropyFeasibility of a reaction	Rate monitoringOrder linked to mechanisms
06/10/2025		Graphical calculations	The rate equation
13/10/2025		Equilibrium constant Kp	The Arrhenius equation
20/10/2025		Mole fractionsPartial pressureKp	Optical isomerism
03/11/2025	PPE1	PPE1 Transition Metals	PPE1 The carbonyl group
10/11/2025	PPE1	General properties	Aldehydes & ketones
17/11/2025		 Complex formation 	 Nucleophilic addition reactions
24/11/2025		Ligand substitutionShapes of complex ions	Carboxylic acids & derivativesEsters
01/12/2025		 Shapes of complex ions Formation of coloured ions 	Esters Required Practical 10b. Preparation of a pure
08/12/2025		 Ions in aqueous solutions 	organic liquid – ethyl ethanoate.
15/12/2025		Transition Metals: Variable oxidation states Oxidation states	Fats & oils Acylation acid chlorides & aphydrides
13, 12, 2023		Oxidation states Redox titrations	 Acylation – acid chlorides & anhydrides Nucleophilic addition-elimination
05/01/2026		Catalytic activity Required Practical 11. Identify transition metal ions in aqueous solution.	Required Practical 10a. Preparation of an organic solid and a test of its purity – aspirin.
12/01/2026		Electrode potentials & cells	Aromatic chemistry
19/01/2026		Redox equilibria Cell conventions & EMF	Structure of benzeneAddition & substitution reactions
26/01/2026		Redox reactions & feasibility	Electrophilic substitution
02/02/2026		 Conventional cell representation 	<u>Amines</u>
09/02/2026	PPE2	Required Practical 8. Measuring the EMF of an electrochemical cell.	Structure & namingPreparation of primary & aromatic
23/02/2026	PPE2	 Commercial applications 	amines
		PPE2	Basic propertiesNucleophilic substitution
02/03/2026			Nucleophilic substitution PPE2
09/03/2026		Acids & Bases	<u>Polymers</u>
16/03/2026		Bronsted Lowry theory pH	Addition polymerisation Condensation polymerisation
23/03/2026		Ionic product of water	Condensation polymerisationBiodegradability of polymers
30/03/2026		pH of weak acids	Biological molecules
20/04/2026		Dilutions & neutralisations Titration curves	Amino acidsProteins & enzyme action
20/04/2020		Buffers	Proteins & enzyme actionDNA
27/04/2026		Required Practical 9. Investigate how pH changes when a weak acid reacts with a strong base.	Structure determination & analysis
04/05/2026		Properties of Period 3 elements & their	Organic Synthesis
11/05/2026		oxides • Elements of Period 3	Revision & summary of all organic reactions
18/05/2026		Oxides	reactions
01/06/2026		Trends in melting points	Revision & exam preparation
08/06/2026		Structure of the acids & anions Revision & exam preparation	
15/06/2026		Terroren & exam propulation	
22/06/2026			
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29/06/2026	EOY	_	<u>-</u>
06/07/2026	Exams	Examinations	Examinations
13/07/2026			

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