

Academic Planner For Class--XI		<u>Chemistry(2017-18)</u>		
DATE /DAY	CONTENT	MODE OF ASSESMENT	C.W/H.W	EXP/LAB ACTIVITY
April(16-30) 12 Days	<p><u>Some basic concepts in chemistry</u> matter, S.I units, uncertainty, significant figures, laws of combination Dalton's theory, Mole concept</p> <p>Revision- Significant figures and Mole concept.</p> <p>Stoichiometry, Limiting reagent Concentration of solution.</p>	<p>1) Test from significant figures, Laws of chemical combination and mole concept (2) MCQ</p> <p>1) Class test from Limiting reagent 2) MCQ from stoichiometry.</p>	<p>C.W: (1) Laws of chemical combination & mole concept. 2) Intext Problems discussion H.W: Assignment based on mole concept</p>	Basic Knowledge of weighing on balance
May(1-15) 9 Days	<p>Revision of Chapter-1</p> <p>Structure of atom History of e, p and neutron, model of atom Rutherford's model of an atom.</p>	Group discussion from e, p and neutron.	<p>C.W: Practice of intext problem & example H.W: Assignment based on concept based problems</p>	Weighing on Physical balance
July(1-15) 12 Days	<p>Schrodinger equation , Quantum numbers Orbitals , shapes, Electronic configuration</p> <p><u>Periodic Classification of Elements</u> s, p, d, f block and trend in properties</p> <p>Revision- Quantum numbers, shapes</p>	<p>(1) group discussion (2) class test from quantum no. 1) MCQ from configuration. 2) Test from 'General trend in properties'.</p>	<p>C.W: Practice of Quantum numbers. H.W: Assignment based on NCERT questions</p>	Preparation of standard soln. Sodium Carbonate
July(16-31) 13 days	<p><u>Chemical Bonding</u> Dot structure, Octet rule, Ionic bond Covalent bond, Coordinate bond, Resonance VSEPR theory</p>	<p>1) Class test from VSEPR theory. 2) Group Discussion.</p>	<p>Assignment based on trend in properties. C.W. intext and example from NCERT</p>	Preparation of standard soln. Oxalic acid

August(1-15)	Revision-- Resonance, VSEPR theory. Orbital overlap concept, Hybridisation Molecular Orbital Theory, Bond order.	1) MCQ from types of bonds. 2) Group discussion from VSEPR theory.		Titration of NaOH vs. Oxalic acid.
10 Days	States of Matter Intermolecular forces, Gas laws, Ideal gas. Dalton's law of pressure.	1) QAXP technique 2) Class test from Hybridisation.	H.W: Assignment based on application based problems	
August(16-31)	Kinetic theory of gases, Vander waal eqn. Liquid state Thermodynamics Terms used in thermodynamics, work Heat, Internal energy. Enthalpy, Hess's law, Born haber cycle Entropy, Gibb's equation.	1) Test from numericals based on Ideal Gas equation. 2) MCQ from terms used in thermodynamics.	C.W. Practice of Hybridisation H.W: Assignment based on conceptual problems and Numericals	Titration of NaOH vs. Oxalic acid
13 Days				
Sept.(1-15)	Half Yearly Examination	QAXP Technique	C.W: Intext problems	
Sept.(16-30)	Equilibrium	Test from Equilibrium.	Examples from NCERT.	Titration of Na ₂ CO ₃ vs. HCl.
10 days	Physical and chemical equilibrium. Laws of equilibrium. Equilibrium Constant, Le Chatelier's principle		H.W Assignment based on numericals.	
OCT(1-15)	Acid-base concept, K _a , K _b and K _w Revision- Hess's law, Le chatelier's principle, Equilibrium constant.	Practice of derivations based on K _a , K _b and K _w	C.W: Intext problems discussion	Titration of Na ₂ CO ₃ vs HCl
9 Days	Buffer solution, solubility product, common ion effect. Redox reaction Oxidation, Reduction reactions		H.W: Assignment based on numerical problems	
OCT(16-31)	Direct and Indirect redox reactions	1) MCQ from Le chatelier's principle	C.W: intext problems and example discussion	Titration of Na ₂ CO ₃ vs HCl
11 Days	Revision-- Redox reactions Galvanic cell, balancing of redox reactions	2) Group Discussion.	H.W.	

	Organic Chemistry			
	Introduction of Basic concepts	1) Test from Redox reaction	Assignment based	
		2) QAXP technique	balancing of redox reactions	
	Revision- Balancing of redox reactions.			
Nov.(1-15)			C.W.	
11 Days	Nomenclature, Isomerism, Electron displacement effect, Qualitative and Quantitative analysis, purification of compounds		Practice of nomenclature displacement effect	
	Alkanes--Preparation, properties		H.W.	
	Revision- Qualitative and Quantitative analysis of N, S, C, O, P and halogen.		Assignment from analysis.	
Nov.(16-30)		1) MCQ from IUPAC nomenclature	H.W.	Mixture Analysis
13 Days	Alkenes, Alkynes---Preparation, properties	2) Test from preparation of alkanes and alkenes.	Assignment based on	Acidic and Basic Radicals
	Benzene- Preparation and Properties.		numericals from qualitative and quantitative analysis.	
	Revision- reaction mechanism, conversions			
Dec(1-15)		(1)QAxp techniques	H.W.	Mixture analysis
11 Days	Unit Test-2	2) MCQ from Alkanes, Alkenes and Alkynes.	Assignment based on NCERT problems.	
Dec.(16-31)		1) Group Discussion.	C.W	
14 Days	Hydrogen	2) Test from NCERT problems	intext problem discussion	
	Position of hydrogen, preparation, physical and chemical properties, H ₂ O, H ₂ O ₂	and conversions.	H.W.	Mixture analysis
	Revision- Properties of H ₂ O and H ₂ O ₂ .		Assignment based on properties of hydrogen	
Jan(1-15)	Environmental chemistry			
1 Day	introduction, greenhouse effect, global warming, pollution, BOD, COD	QAXP technique.	H.W.	Mixture analysis
			Assignment based on	
Jan(16-31)	S-Block elements		NCERT problems	

13Days	Group I, Group II--Trend in properties	Group discussion		
	Anomalous behaviour of first element		Assignment based on	
	Diagonal relationship		application based problems	
	Revision- Trend in properties of I and II gp.			

Feb.(1-15)	<u>p-Block elements</u>			
12 Days	13 gp. Elements, 14gp. Elements- Trend in properties, anomalous behaviour of first element with rest of the members	MCQ from trend in properties.	H.W. Assignment based on Conceptual questions.	
	Revision- Complete Syllabus.			

	<u>Examination Schedule</u>			
	Unit Test-1 Ch-1, Ch-2 and Ch-3			
	Half Yearly Examination-- Ch-1, Ch-2. Ch-3, Ch-4, Ch-5 and Ch-6			
	Unit Test-2 Ch-6, Ch-7, Organic chemistry			
	Annual Examination - Complete Syllabus.			