	Academic Planner For Class--XI	Chemistry (2019--20)		
DATE /DAY	**CONTENT**	**MODE OF ASSESMENT**	**C.W/H.W**	**EXP/LAB ACTIVITY**
May (1--15)	Redox Reactions (Some basic concepts of X class)	Quiz Activity in the class.		
11 Days			Assignment based on NCERT questions	
July(1--15)	**Redox reaction**			
12 Days	Oxidation , Reduction reactions		**C.W:**	Weighing on Physical balance
	Direct and Indirect redox reactions	Test from balancing of redox reactions.	Practice of intext problems and examples.	
	Galvanic cell, balancing of redox reactions	MCQ from Oxidation and Reduction.	**H.W.**	
	Some basic concepts in chemistry		Assignment based on concept based problems.	
	Laws of combinations, Mole concept, Atomic and molecular mass, Limiting reagent, Stoichiometry and concentraion of solution.	Test from mole concept and laws of combination.		Weighing on balance.
July(16-31) 14 days	History of e, p and neutron, model of atom(introduction) , Rutherford's model of atom and its drawbacks.	Group discussion from e, p and neutron.		
August(1-15)	Bohr' model of an atom and its drawbacks, Dual nature of radiations,.Schordinger equation , Quantum numbers	(2) class test from quantum no.	Practice of Quantumnumbers.	Preparation of standard soln. of sodium carbonate.
10 Days	Orbitals , shapes,Electronic configuration			
	Periodic Classification of Elements	1) MCQ from configuration.	Assignment based on NCERT questions.	
	s, p,d, f block and trend in properties	2) Test from 'General trend in properties'.		
	Revision- Quantum numbers, shapes		**H.W.**	
	Chemical Bonding		Assignment based on trends in properties.	
August(16-31)	Dot structure, Octet rule,Ionic bond	1) Class test from VSEPR theory.	**C.W.**	Preparation of standard soln. of oxalic acid.

13 days	Covalent bond,Coordinate bond, VSEPR theory.	2) Group Discussion activity from shapes of molecules.	intext and example from NCERT.	
September(1-15) 10 Days	**Revision for Half Yearly examination**			
September(16-30)	Revision-- VSEPR theory, types of bonds.	1) MCQ from types of bonds.	Practice of Intext ques. and examples.	Titration of NaOH vs.Oxalic acid.
13 Days	Orbital overlap concept, Hybridisation	2) Group discussion from VSEPR theory.		
			H.W:	
	Molecular Orbital Theory, Bond order.	1) QAXP technique. 2) Class test from hybridisation.	Assignment based onapplication based problems.	
	States of Matter			
	Intermolecular forces, Gas laws,Ideal gas.			
	Dalton's law of pressure.			
October(1-15)	Kinetic theory of gases, Vander waal eqn.	1) Test from numericals based	Practice of Hybridisation	Titration of NaOH vs. Oxalic acid.,
6 Days	Liquid state	on Ideal Gas equation.		
	Thermodynamics			
	Terms used in thermodynamics, work	2) MCQ from terms used in thermodynamics.	**H.W:**	
October(16-31)	Heat, Internal energy.		Asignement based on	
	Enthalpy, Hess's law,Born haber cycle		conceptual problems	
11 Days	Entropy,Gibb's equation.		and Numericals	
	Equilibrium---Physical and chemical equilibrium			
	Laws of equilibrium.	Test from Equilibrium.	Intext problems	
	Equilibrium Constant, Le Chatelier's principle	QAXP Technique	Examples from NCERT.	
Nov.(1-15)	Acid-base concept, Ka, Kb and Kw		Intext problems discussion	Titration of Na2 CO3 vs. HCl.
11 Days	Revision- Hess's law, Le chatelier's			
	principle,Equilibrium constant.	Practice of derivations based on Ka, Kb and Kw	Assignment based on numericalsfrom chemical equilibria.	
	Buffer solution, solubility product,common ion effect.			

	Organic Chemistry			
	Introduction of Basic concepts			
	Nomenlature, Isomerism, Electron		Intext problems discussion.	Titration of Na2CO3 vs HCl
	displacement effect,Qualitative and	1) MCQ from IUPAC nomenclature	Assignment based on	
	Quantitative analysis, purification of compounds	2) Quiz activity from nomenclature	displacement effects	
Nov.(16-30)	**Alkanes--Preparation,properties**			
13 Days	Revision- Qualitative and Quantitave	1) Group discussion activity from isomerism		
	analysis of N, S, C, O,P and halogen.		intext problems and examples discussion.	Titration of Na2CO3 vs HCl
	Alkenes, Alkynes---Preparation, properties	2) Test from preparation of alkanes and alkenes.		
Dec.(1-15)				
11 Days	**Benzene- Preparation and Properties.**	1) QAXP technique		
	Revision- reaction mechanism, conversions	2) Practice of reactions and mechanism	Assignment based on	Mixture Analysis
	Hydrogen		NCERT problems	Acidic and Basic Radicals
	Position of hydrogen, preparation, physical	1) Group Discussion.		
	and chemical properties, H2O, H2O2	2) Test from NCERT problems		
		and conversions.	intext problem discussion	
Dec(16-30)				
12 days	Revision- Properties of H2O and H2O2.			
	Environmental chemistry	QAXP technique.	intext problem discussion	
	introduction,greenhouse effect ,	Quiz activity from environmental chemistry	Assignment based on	
	global warming,pollution,BOD,COD		properties of hydrogen	
Jan(1-15)	**S-Block elements**		**H.W.**	Mixture analysis
Jan (16-31)	Group I, Group II--Trend in properties		Assignment based on	
14 Days			NCERT problems.	
	Anomalous behaviour of first element	Practice of reactions and general trends in the form of Quiz.		

	Diagonal relationship , some important chemical compounds of group I and II.			
	Revision- Trend in properties of I and II gp.			
	p-Block elements		**C.W**	
	13 gp. ,14 gp.	Group discussion activity.	intext problem discussion	
	properties,anomalous behaviour of first		**H.W.**	Mixture analysis
	element with rest of the members and some important chemical compounds.		Assignment based on conceptual questions.	
	Examination Schedule			
	Unit Test-1 Redox reactions, Mole Concept and Laws of chemical combinations.			
	Half Yearly Exam.-- Some basic concepts in chemistry, Structure of atom, Classification of elements, Redox reactions.			
	Unit Test-2 Classification of elements, Chemical Bonding, States of matter and thermodynamics.			
	Annual Examination-- Complete Syllabus			