

N.C. JINDAL PUBLIC SCHOOL						
PUNJABI BAGH, NEW DELHI						
ANNUAL CURRICULUM 2024-25						
Class : XI	Subject: CHEMISTRY	Subject Teacher (Prepared By): Bhavika Malhotra			Designation : P.G.T chemistry	
Academic Book	Chapter Name	Chapter Topic / Sub Topic	Term I/II	Start Date	End Date	No. of Periods
NCERT	Some Basic Concepts of Chemistry	General Introduction: Importance and scope of Chemistry.	1	01-07-24	06-07-24	5
		Nature of matter, laws of chemical combination, Dalton's atomic theory: concept of elements, atoms and molecules.	1			
		Atomic and molecular masses, mole concept and molar mass	1			
		percentage composition, empirical and molecular formula,	1			6
		chemical reactions, stoichiometry calculations based on stoichiometry	1			
	Structure of Atom	Discovery of Electron, Proton and Neutron, atomic number, isotopes and isobars.	1	08-07-24	12-07-24	6
		Thomson's model and its limitations. Rutherford's model and its limitations,	1			
		Bohr's model and its limitations, concept of shells and subshells	1			
		dual nature of matter and light, de Broglie's relationship	1	15-07-24	20-07-24	5
		Heisenberg uncertainty principle, concept of orbitals	1			
		quantum numbers, shapes of s, p and d orbitals	1			

		rules for filling electrons in orbitals - Aufbau principle, Pauli's exclusion principle and Hund's rule	1	22-07-24	26-07-24	5
		electronic configuration of atoms	1			
		stability of half-filled and completely filled orbitals.	1			
	Classification of Elements and Periodicity in Properties	Significance of classification, brief history of the development of periodic table, modern periodic law and the present form of periodic trends in properties of	1	29-07-24	03-08-24	6
		Ionization enthalpy, electron gain	1	05-08-24	09-08-24	5
		electronegativity,	1	12-08-24	17-08-24	6
	Chemical Bonding and Molecular Structure	Valence electrons, ionic bond, covalent bond, bond parameters	1	20-08-24	23-08-24	5
		Lewis's structure, polar	1			
		covalent character of ionic bond, valence	1			
		geometry of covalent molecules, VSEPR t	1	27-08-24	31-09-24	5
		concept of hybridization, molecular orbital theory	1			
		Hydrogen bond	1	02-09-24	06-09-24	5
	Chemical Thermodynamics	Concepts of System and types of systems, surroundings, work, heat, energy	1			
		extensive and intensive properties, state	1			
		heat capacity and specific heat,	1			
		revision		09-09-24	12-09-24	4
		Hess's law of	2			
		enthalpy of bond dissociation,	2	30-09-24	05-10-24	4

		Second law of	2			
		Gibb's	2			
		Third law of thermodynamics (brief	2	07-10-24	09-10-24	5
	Equilibrium	Equilibrium in physical and chemical	2			
		factors affecting equilibrium - I.e	2	14-10-24	18-10-24	4
		ionic equilibrium- ionization of acids	2			
		degree of	2			
		concept of pH, hydrolysis of salts	2			
		Henderson Equation, solubility product	2	21-10-24	25-10-24	4
		common ion	2	28-10-24	30-10-24	-
	Redox Reactions	Concept of oxidation and reduction,	2			
		oxidation number, balancing redox	2			
		in terms of loss and gain of electrons	2	04-11-24	08-11-24	5
		applications of redox reactions.	2			
	Organic Chemistry -Some Basic Principles and Techniques	General introduction, methods of	2	11-11-24	16-11-24	3
		purification, qualitative and				
		quantitative analysis				
		classification and IUPAC nomenclature	2			
		Electronic displacements	2	18-11-24	22-11-24	5
		electromeric effect, resonance and	2	25-11-24	30-11-24	5
		Homolytic and heterolytic fission of a	2			
		electrophiles and nucleophiles,	2			2
		types of organic reactions.	2	02-12-24	07-12-24	4
	Hydrocarbons	Alkanes - Nomenclature, isomerism,	2	09-12-24	12-12-24	5
		chemical reactions including free	2			
		combustion and pyrolysis.	2	16-12-24	21-12-24	5
		Alkenes - Nomenclature, the structure	2			
		physical properties, methods of	2	23-12-24	27-12-24	5
		halogen, water, hydrogen halides	2	30-12-24	04-01-25	5

		ozonolysis, oxidation, mechanism of	2	06-01-25	10-01-25	4
		Alkynes - Nomenclature, the structure	2	13-01-25	17-01-25	5
		methods	2	20-01-25	24-01-25	5
		acidic character of alkynes, addition	2	27-01-25	31-01-25	5
		hydrogen halides and water.	2			
		revision	2	03-02-25	14-02-25	11
SUBJECT COORDINATOR NAME : Ms. Menka Garg						

N.C. JINDAL PUBLIC SCHOOL PUNJABI BAGH, NEW DELHI			
Periodic Test/Half Yearly/Annual Marking Scheme 2024-25			
Class :	XI		
S.No.	PT/Half Yearly/Pre Board	Subject : Chemistry Chapter / Topic	Max. Marks
1	PT-1	Ch-1 Some basic concepts of chemis	10
		Ch-2 Structure of Atom	10
		Total	20
2	HLY	Ch-1 Some basic concepts of chemis	13
		Ch-2 Structure of Atom	18
		Ch-3 Classification of Elements and Periodicity in Properties	12
		Ch-4 Chemical Bonding and Molecular Structure	20
		Ch-6 Chemical Thermodynamics (upto 6.2.2)	7
		Total	70
3	PT-2	Ch-6 Chemical Thermodynamics	10
		Ch-7 Equilibrium	10
		Total	20
4	Annual Examination	Ch-1 Some basic concepts of chemis	7
		Ch-2 Structure of Atom	9

		Ch-3 Classification of Elements and Periodicity in Properties	6
		Ch-4 Chemical Bonding and Molecular Structure	7
		Ch-6 Chemical Thermodynamics	9
		Ch-7 Equilibrium	7
		Ch-8 Redox Reactions	4
		Ch- 12 Organic Chemistry: Some basic Principles and Techniques	11
		Ch-13 Hydrocarbons	10
		Total	70