

N.C. JINDAL PUBLIC SCHOOL						
PUNJABI BAGH, NEW DELHI						
ANNUAL CURRICULUM (2025-2026)						
Class : XI	Subject: CHEMISTRY	Subject Teacher (Prepared By): NEHAL GUPTA			Designation : _PGT CHEM	
Academic Book	Chapter Name	Chapter Topic / Sub Topic	Term I/II	Start Date	End Date	No. of Periods
		Bridge Course Topics- Avogadro's number, Mole concept, concept of Valency, Writing Chemical Formulas, Idea of Periodic Table , How to use log tables and simple arithmetic calculations using log table.		7-April-2025	15-April-2025	6
Book-1 NCERT	CH-1 Some Basic Concepts of Chemistry	General Introduction, laws of chemical combination, Dalton's atomic theory.	I	16-April-2025	30-April-2025	10
		Atomic and molecular masses, mole concept and molar mass, percentage composition	I	1-May-2025	16-May-2025	12
		empirical and molecular formula, chemical reactions, stoichiometry and calculations based on stoichiometry.	I			
Book-1 NCERT	CH-2 Structure of Atom	Discovery of Electron, Proton and Neutron, atomic number, isotopes and isobars. Thomson's model and its limitations.	I	1-July-2025	5- July-2025	5
		Rutherford's model and its limitations, Bohr's model and its limitations, concept of shells and subshells, dual nature of matter and light, de Broglie's relationship, Heisenberg uncertainty principle	I	7- July-2025	15- July-2025	7
		concept of orbitals, quantum numbers, shapes of s, p and d orbitals, rules for filling electrons in orbitals - Aufbau, Pauli's exclusion principle and Hund's rule, stability of half-filled and completely filled orbitals.	I	16-July-2025	31- July-2025	13
Book-1 NCERT	CH-3 Classification of Elements and Periodicity in Properties	Significance of classification, brief history of the development of periodic table, modern periodic law and periodic table	I	1-Aug-2025	8-Aug-2025	7
		periodic trends in properties of elements -atomic radii, ionic radii, inert gas radii, Ionization enthalpy, electron gain enthalpy.	I			
		electronegativity, valency. Nomenclature of elements with atomic number greater than 100.	I			
Book-1 NCERT	CH-4 Chemical Bonding and Molecular Structure	Valence electrons, ionic bond, covalent bond, bond parameters, Lewis structure, polar character of covalent bond, covalent character of ionic bond, valence bond theory	I	11-Aug-2025	14-Aug-2025	4
		resonance, geometry of covalent molecules, VSEPR theory, concept of hybridization, involving s, p and d orbitals	I	18-Aug-2025	22-Aug-2025	5
		shapes of some simple molecules, molecular orbital theory of homonuclear diatomic molecules, Hydrogen bond.	I	25-Aug-2025	29-Aug-2025	5
Book-1 NCERT	CH-5 Chemical Thermodynamics	Concepts of System and types of systems, surroundings, work, heat, energy, extensive and intensive properties, state functions.	I	1-Sept-2025	6-Sept-2025	5
		REVISION		8-Sept-2025	11-Sept-2025	

		First law of thermodynamics -internal energy and enthalpy, heat capacity and specific heat, measurement of ΔU and ΔH	II	3-Oct-2025	9-Oct-2025	4
		Hess's law of constant heat summation, enthalpy of bond dissociation, combustion, formation, atomization, sublimation, phase transition, ionization, solution and dilution. Second law of Thermodynamics	II	13-Oct-2025	17-Oct-2025	5
		Introduction of entropy as a state function, Gibb's energy change for spontaneous and nonspontaneous processes, criteria for equilibrium. Third law of thermodynamics	II			
Book -1 NCERT	CH-6 Equilibrium	Equilibrium introduction, law of mass action, equilibrium constant, factors affecting equilibrium - Le Chatelier's principle	II	24-Oct-2025	31-Oct-2025	5
		ionic equilibrium- ionization of acids and bases, strong and weak electrolytes, degree of ionization, ionization of poly basic acids,	II	1-Nov-2025	21—Nov-2025	15
		acid strength, concept of pH, hydrolysis of salts, buffer solution, Henderson Equation, solubility product, common ion effect	II			
Book-1 NCERT	CH-7 Redox Reactions	Concept of oxidation and reduction, redox reactions, oxidation number	II	24—Nov-2025	28-Nov-2025	5
		balancing redox reactions, in terms of loss and gain of electrons and change in oxidation number,	II	1-Dec-2025	6-Dec-2025	6
		applications of redox reactions.	II			
Book-2 NCERT	CH-8 Organic Chemistry: Some basic Principles and Techniques	General introduction, classification and IUPAC nomenclature of organic compounds.	II	8-Dec-2025	20-Dec-2025	11
		inductive effect, electromeric effect, resonance and hyper conjugation.	II	22-Dec-2025	26-Dec-2025	4
		Homolytic and heterolytic fission of a covalent bond: free radicals, carbocations, carbanions, electrophiles and nucleophiles, types of organic reactions.	II			
Book-2 NCERT	CH-9 Hydrocarbons	Alkanes - Nomenclature, isomerism, conformation (ethane only), physical properties, chemical reactions	II	29-Dec-2025	31-Dec-2025	3
		Alkenes - Nomenclature, structure of double bond (ethene), geometrical isomerism, physical properties, methods of preparation, chemical reactions	II	16-Jan-2026	30-Jan-2026	11
		Alkynes - Nomenclature, structure of triple bond (ethyne), physical properties, methods of preparation, chemical reactions	II			
		Aromatic Hydrocarbons: Introduction, IUPAC nomenclature, benzene: resonance, aromaticity, chemical properties, directive influence of functional group in monosubstituted benzene. Carcinogenicity and toxicity	II			
		REVISION				
		Prepared By : Nehal Gupta Sign _____				
		Subject Co-ordinator : Naveen Kumar Tripathi Sign _____				

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Periodic Test/Half Yearly/Annual Marking Scheme : 2025-2026			
Class :	XI	Subject : CHEMISTRY	
S.No.	PT/Half Yearly/Annual	Chapter / Topic	Max. Marks
1	PT -1	CH-1 Some Basic Concepts of Chemistry	10
		CH-2 Structure of Atom	10
		Total	20
2	Half- yearly	CH-1 Some Basic Concepts of Chemistry	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-5 Chemical Thermodynamics (upto 6.2.2)	7
		Total	70
3	PT-2	CH-5 Chemical Thermodynamics	5
		CH-6 Equilibrium	10
		CH-7 Redox Reactions	5
		Total	20
4	Annual	CH-1 Some Basic Concepts of Chemistry	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-5 Chemical Thermodynamics	9
		CH-6 Equilibrium	7
		CH-7 Redox Reactions	4
		CH-8 Organic Chemistry: Some basic Principles and Techniques	11
		CH-9 Hydrocarbons	10
		TOTAL	70