



ANNUAL CURRICULUM (2026-2027)

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	
Book-1 NCERT	CH-1 Some Basic Concepts of Chemistry	Importance of Chemistry, Nature of Matter, Properties of Matter and their Measurement,	I	16-April-2026	24-April-2026	8	
		Uncertainty in Measurement, Laws of Chemical Combination, Dalton's Atomic Theory		27-April-2026	6-May-2026	8	
		Atomic and Molecular Masses, Mole Concept and Molar Masses, Percentage Composition, Stoichiometry and Stoichiometric Calculation		7-May-2026	18-May-2026	8	
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, Rutherford's model and its limitations, Bohr's model and its limitations.	I	1-July-2026	6- July-2026	5	
		Concept of shells and subshells, dual nature of matter and light		7- July-2026	14- July-2026	6	
		De Broglie's relationship, Heisenberg uncertainty principle, concept of orbitals		15-July-2026	21- July-2026	6	
		Quantum numbers, shapes of s, p and d orbitals, rules for filling electrons in orbitals – Aufbau rule, Pauli's exclusion principle and Hund's rule, stability of half-filled and completely filled orbitals.		22- July-2026	31- July-2026	8	
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-2026	10-Aug-2026	7	
		periodic trends in properties of elements -atomic radii, ionic radii, inert gas radii, Ionization enthalpy, electron gain enthalpy.					
		electronegativity, valency. Nomenclature of elements with atomic number greater than 100.					
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-2026	14-Aug-2026	4	
		resonance, geometry of covalent molecules, VSEPR theory, concept of hybridization, involving s, p and d orbitals		17-Aug-2026	21-Aug-2026	5	
		shapes of some simple molecules, molecular orbital theory of homonuclear diatomic molecules, Hydrogen bond.		24-Aug-2026	31-Aug-2026	4	
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-2026	7-Sept-2026	5	

		REVISION (HALF YEARLY EXAMINATION)			8-Sept-2026	11-Sept-2026	4
Book-1 NCERT	CH-5 Chemical Thermodynamics	First law of thermodynamics -internal energy and enthalpy, heat capacity and specific heat, measurement of ΔU and ΔH	II	29-Sept-2026	30-Sept-2026	2	
		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		1-Oct-2026	9-Oct-2026	6	
		Introduction of entropy as a state function, Gibb's energy change for spontaneous and nonspontaneous processes, criteria for equilibrium. Third law of thermodynamics		12-Oct-2026	16-Oct-2026	5	
Book -1 NCERT	CH-6 Equilibrium	Equilibrium introduction, law of mass action, equilibrium constant, factors affecting equilibrium - Le Chatelier's principle	II	21-Oct-2026	31-Oct-2026	7	
		ionic equilibrium- ionization of acids and bases, strong and weak electrolytes, degree of ionization, ionization of poly basic acids,		2-Nov-2026	13-Nov-2026	8	
		acid strength, concept of pH, hydrolysis of salts, buffer solution, Henderson Equation, solubility product, common ion effect		16-Nov-2026	21-Nov-2026	6	
Book-1 NCERT	CH-7 Redox Reactions	Concept of oxidation and reduction, redox reactions, oxidation number	II	23-Nov-2026	30-Nov-2026	5	
		balancing redox reactions, in terms of loss and gain of electrons and change in oxidation number,		1-Dec-2026	8-Dec-2026	6	
		applications of redox reactions.					
Book-2 NCERT	CH-8 Organic Chemistry: Some basic Principles and Techniques	General introduction, classification and IUPAC nomenclature of organic compounds.	II	9-Dec-2026	16-Dec-2026	6	
		inductive effect, electromeric effect, resonance and hyper conjugation.		17-Dec-2026	22-Dec-2026	5	
		Homolytic and heterolytic fission of a covalent bond: free radicals, carbocations, carbanions, electrophiles and nucleophiles, types of organic reactions.		23Dec-2026	28-Dec-2026	4	
Book-2 NCERT	CH-9 Hydrocarbons	Alkanes - Nomenclature, isomerism, conformation (ethane only), physical properties, chemical reactions	II	29-Dec-2026	31-Dec-2026	3	
		Alkenes - Nomenclature, structure of double bond (ethene), geometrical isomerism, physical properties, methods of preparation, chemical reactions		16-Jan-2027	21-Jan-2027	5	
		Alkynes - Nomenclature, structure of triple bond (ethyne), physical properties, methods of preparation, chemical reactions		22-Jan-2027	29-Jan-2027	5	
		Aromatic Hydrocarbons: Introduction, IUPAC nomenclature, benzene: resonance, aromaticity, chemical properties, directive influence of functional group in monosubstituted benzene. Carcinogenicity and toxicity					
		REVISION (ANNUAL EXAMINATION)					
		Prepared By : Nehal Gupta	Sign_____				
		Subject Co-ordinator : Menka Garg	Sign_____				



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Periodic Test/Half Yearly/Annual Marking Scheme : 2026-2027

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