

Weekly Distribution of Syllabus
Class-11th
Subject- Chemistry

Month	Week	Name of Chapter	Topics/Content
June	3rd (16 June - 19 June)	Some Basic Concepts of Chemistry	Gen. Introduction: Importance & Scope
			Historical Approach & Law of Chemical Combination
	4th (21 June - 26 June)	Some Basic Concepts of Chemistry	Dalton's Atomic Theory, Concept of Elements, atoms & Molecules
			Atomic & Molecular Masses, Mole Concept & Molar Mass
			Percentage Composition, Empirical & Molecular Formula, Stoichiometry
5th (28 June - 03 July)	Structure of Atom	Discovery of Electron, Proton & Neutron	
July	1st (05 July - 10 July)	Structure of Atom	Atomic Number, Isotops, Isobars & Thomson's Model of Atom
			Rutherford's & Bohr's Model of Atom, Dual Nature of Matter
	2nd (12 July - 17 July)	Classification of Elements & Periodicity	De Broglie's Relationship, Heisenberg's Uncertainty Principal, Concept of Orbitals
			Quantam Numbers, Shape of Orbitals
			Rules for filling Electrons, Electronic Configuration
	3rd (19 July - 24 July)	Chemical Bonding & Molecular Structure	Significance of Classification, History of Development
			Present form of Periodic Table & Periodic Trends- Atomic Radii, Ionic Radii, Inert Gas Radii
	4th (26 July - 31 July)	Chemical Bonding & Molecular Structure	Periodic Trends- I.E., E.G.A., Electronegativity, Valency & Nomenclature Elements >100
			Valence Electrons, Ionic Bond, Covalent Bond & Bond Parameters
			Lewis Structure, Polar Character of Covalent Bond & Covalent Character of Ionic Bond
			V.B.T., Resonance & Geometry of Covalent Molecule
			VESPAR Theory, Concept of Hybridization & MOT
			Revision and SAT
August	1st (02 Aug - 07 Aug)	States of Matter: Gases & Liquids	Three States of Matter, Types of Bonding, M.P. & B.P., Role of Gas Laws
			Boyle's Law, Charle's Law, Gay Lussac's Law
	2nd (09 Aug - 14 Aug)	States of Matter: Gases & Liquids	Avagadro's Law, Ideal Behaviour, Derivation of Gas Equation, Avagadro No.
			Liquefication of Gases, Critical Temp., K.E. & Molecular Speed
			Liquid State- V.P., Viscosity, Surface Tension
	3rd (16 Aug - 21 Aug)	Chemical Thermodynamics	System & Surroundings, Work
			Heat, Energy, Extensive & Intensive Properties, State Function
	4th (23 Aug - 28 Aug)	Chemical Thermodynamics	1st Law Thermodynamics, Measurements of ΔU , ΔH & Hess Law
			Enthalpy of Bond Dissociation, Combustion, Formation, Atomization, Sublimation
			Solution & Dilution, Entropy, Gibbs Free Energy Change
5th (30 Aug - 04 Sept)	Equilibrium	Criteria of Equilibrium, Second Law of Thermodynamics	
		Equilibrium in Phy. & Chemical Process, Dynamic Nature of Equilibrium	
			Law of Mass Action, Equilibrium Contant, Factors affecting Equilibrium
			Le Chatelier's Principle, Ionic Equilibrium
			Degree of Ionization, Ionization of Poly Basic Acids, Acid Strength
Sept.	1st (06 Sept - 11 Sept)	Equilibrium	Concept of pH, Henderson Equation, Hydrolysis of Salts
			Buffer Solutions, Solubility Product & Common Ion Effect
	2nd (13 Sept - 18 Sept)	Redox Reactions	Concept of Oxidation & Reduction, Redox Reactions
			Redox Reactions, Oxidation Number
			Balancing Redox Reactions & Application of Redox Reactions
	3rd (20 Sept - 25Sept)	Hydrogen	Position of Hydrogen, Occurance, Isotops
			Prepration, Properties & Uses of Hydrogen
			Hydrides- Ionic, Covalent & Interstitial, Water
			Heavy Water & Hydrogen Peroxide
4th (27 Sept - 02 Oct)	Revision and SAT		

Weekly Distribution of Syllabus
Class-12th
Subject- Chemistry

Month	Week	Name of Chapter	Topics/Content	
June	3rd (16 June - 19 June)	Solid State	Classification of solids, Amorphous & Crystalline Solids	
			Unit Cell in 2D & 3D lattice, Density Calculation	
			Packing, P.E. , Voids, No. of Atoms per Unit Cell	
	4th (21 June - 26 June)	Solid State	Defects, Electrical & Magnetic Properties, Band Theory	
		Solution	Conductors, Semiconductors, Insulators & n-p type Semiconductors	
	5th (28 June - 03 July)	Solution	Solution	Types of Solutions, Concentration & Solubility of Gases
Colligative Properties - RLVP & Raoult's Law				
Elevation in B.P., Depression in F.P. & Osmotic Pressure				
July	1st (05 July - 10 July)	Electrochemistry	Determination of Mol. Mass , Abnormal Mol. Mass, Van't Hoff Factor	
			Electrochemical Cell, Electrode Potential & E.M.F. of Cell	
			Electrochemical Series, Conductivity	
			Kohlrausch's Law & Electrolysis	
	2nd (12 July - 17 July)	Chemical Kinetics	Chemical Kinetics	Batteries & Corrosion
				Rate of Rxn., Factors affecting Rate of Rxn. & Rate Constant
	3rd (19 July - 24 July)	Surface Chemistry	Surface Chemistry	Order and Molecularity of Rxn. & Specific Rate Constant
				Integrated Rate Equation & Half Life
4th (26 July - 31 July)			Concept of Collision Theory, Activation Energy & Arrhenius Equation	
			Adsorption, Factor affecting Adsorption & Catalysis	
August	1st (02 Aug - 07 Aug)	Surface Chemistry	Revision and SAT	
			Enzyme Catalysis & Colloidal State	
			Purification & Properties of Colloids	
	2nd (09 Aug - 14 Aug)	General Isolation & Process	General Isolation & Process	Origin of Charge on Colloidal Particals & Emulsions
				Metallurgy & Refining of Metals
				Chromatographic Methods & Ellingham Diagram
	3rd (16 Aug - 21 Aug)	p-Block Elements	p-Block Elements	Extraction - Fe, Cu & Ag
				Extraction - Au, Al & Zn
				Group - 15 (General introduction, Physical & Chemical Properties)
	4th (23 Aug - 28 Aug)	p-Block Elements	p-Block Elements	Group - 15 (Nitrogen & Phosphorus)
				Group - 16 (General introduction, Physical & Chemical Properties)
				Group - 16 (Oxygen & Sulphur)
5th (30 Aug - 04 Sept)	p-Block Elements	p-Block Elements	Group - 17 (General introduction, Physical & Chemical Properties)	
			Group - 17 (Chlorine & Interhalogen Compound)	
			Group - 18 (Noble Gases)	
Sept.	1st (06 Sept - 11 Sept)	d & f Block Elements	General Introduction, Characteristics of Transition Metals	
			General Trends in Properties of Transition Metals	
			Preparation & Properties of $K_2Cr_2O_7$ and $KMnO_4$	
			Lanthanoids - General & Lanthanoid Contraction	
	2nd (13 Sept - 18 Sept)	Coordination Compounds	Coordination Compounds	Actinoids- General & Comparison with Lanthanoids
				Coordination Compounds- General, Ligands & Magnetic Properties
	3rd (20 Sept - 25 Sept)	Coordination Compounds	Coordination Compounds	Coordination Compounds - IUPAC Nomenclature
				Bonding, Werner's Theory, VBT & CFT
4th (27 Sept - 02 Oct)			Colours in Coordination Compounds & Stability of Complex	
			Metal Carbonyls & Applications of Coordination Compounds	
			Revision and SAT	