Annual & Weekly Syllabus Split-Up - 2026-27

Class- XII Subject-Chemistry

S.No	Month	No. of Working Days		No. of Days	Topic	Sub Topic	Teaching aid/Resources	Activity	class room videos LINK	Art Integrated project	Pedagogy Process/Teaching Strategy	Chapterwise Notes link	Assessment			
							NCERT, Senses Board, You Tube videos,						Solve the equation,MCQ,Assertion &Reason & Class Test			
1	APRIL	25	Week 1	5	Solution Electrochemistry	Relation between Gibbs energy change and EMF of a cell, conductance in electrolytic solutions,specific and molar conductivity, variations of conductivity with concentration, Kohlrausch's Law, electrolysis and law of electrolysis (elementary idea),		Titration	https://youtu.be/nn-1UU_1PX8?si=zUNrC1lBXOlQSgnq		Inquiry-Based Learning: Encourages students to explore chemical phenomena, formulate questions, and conduct experiments to discover concepts,					
			Week 2	5		solid solutions, Raoult's law, ypes of solutions, expression of concentration of solutions of solids in liquids, solubility of gases in liquids, solid solutions, Raoult's law, colligative properties - relative lowering of vapour pressure,Types of solutions, expression of concentration of solutions of solids in liquids, solubility of gases in liquids, Numericals based on solution elevation of boiling point, depression of freezing point, osmotic pressure, Internal resistance of a cell, potential difference and emf of a cell, combination of cells in series and in parallel, Kirchhoff's rules, Wheatstone bridge.	NCERT, Senses Board,You Tube videos	to find the Molarity and strength of Potasssium permanganate	https://youtu.be/j7PYqR1iGMg?si=gIdA_5EV_FRRA5aF			https://drive.google.com/drive/folders/1pDAuFtQwZldskXJ50-OuXzFJOkY_ufwB?usp=drive_link				
			Week 3	4		Dry cell-electrolytic cells and Galvanic cells, lead accumulator, fuel cells, corrosion	NCERT, Senses Board,									
			Week 4	6		Numerical Based on Nearst Equation.Rate of a reaction (Average and instantaneous), factors affecting rate of reaction: concentration, temperature, catalyst; order and molecularity	NCERT, Senses Board,									
			Week 5	3	Chemical kinetics	rate law and specific rate constant, integrated rate equations and half-life (only for zero and first order reactions), concept of collision theory (elementary idea, no mathematical treatment),		to find the Molarity and strength of Potasssium permanganate	https://youtu.be/Ez2EaGNt-u8?si=5GRgi-Ecrl0BYJIX		Problem-Based Learning (PBL): Students work in groups to solve real-world chemistry problems (e.g., environmental issues, material science), fostering critical thinking and practical application	https://drive.google.com/drive/folders/1pDAuFtQwZldskXJ50-OuXzFJOkY_ufwB?usp=drive_link				
			Week 1	0		activation energy, Arrhenius equation.										

			Week 2	6	Chemical kineticsd and f block elements	General introduction, electronic configuration, occurrence and characteristics of transition metals, general trends in properties of the first row transition metals	NCERT, Senses Board, bar magnet	to find the Molarityand strength of Potasssium permanganate								
2	JUNE	19	Week 3	6		metallic character, ionization enthalpy, oxidation states, ionic radii, colour, catalytic property, magnetic properties,Lanthanoids - Electronic configuration, oxidation states, chemical reactivity and lanthanoid contraction and its consequences.	NCERT, Senses Board,			https://www.slideshare.net/slideshow/art-integrated-project-of-chemistry-class-12/241231498?utm_source=clipboard_share_button&utm_campaign=slideshare_make_sharing_viral_v2&utm_variation=control&utm_medium=share	Inquiry-Based Learning: Encourages students to explore chemical phenomena, formulate questions, and conduct experiments to discover concepts,					
			Week 4	6	d and f block/coordination compounds	Actinoids - Electronic configuration, oxidation states and comparison with lanthanoids.	NCERT, Senses Board,		https://youtu.be/UPCNZZB9o7I?si=toEBrKKeRrM-_UJJ							
			Week 5	1		Exercise Questions	NCERT, Senses Board,									
			Week 1	5	coordination compounds/ Halo alkane and haloarene	1. Werner's Theory of Coordination Compounds 2. Definitions of Some Important Terms Pertaining to Coordination Compounds 3. Nomenclature of Coordination Compounds.	NCERT, Senses Board,	Notes Preperation								
			Week 2	6		4. Isomerism in Coordination Compounds 5. Bonding in Coordination Compounds 6. Bonding in Metal Carbonyls 7. Importance and Applications of Coordination Compounds	NCERT, Senses Board	To find the Molarityand strength of Potasssium permanganate with oxalic acid	https://youtu.be/REJPwUQDjxA?si=H8ViNvU_bYPY47hc		Explain Acidic and basic behavior of salts and solutions Solve numerical problems involving momentum Observe laws of motion in real-life situations		learn the equations,MCQ,Assertion &Reason & Class Test			
3	JULY	27	Week 3	6	Halo alkanes and Halo arenes	Haloalkanes: Nomenclature, nature of C–X bond, physical and chemical properties, optical rotation mechanism of substitution reactions.	NCERT, Senses Board	Notes Preperation	https://youtu.be/8OoPwXO110w?si=1RwDJhZ46Wr7oGrm			https://drive.google.com/drive/folders/1pDAuFtQwZldskXJ50-OuXzFJOkY_ufwB?usp=drive_link				
			Week 4	6		Haloarenes: Nature of C–X bond, substitution reactions (Directive influence of halogen in Haloalkanes: Nomenclature, nature of C–X bond, physical and chemical properties, optical rotation mechanism of substitution	NCERT, Senses Board	Salt analysis of inorganic salts								

			Week 5	4	Alcohol Phenols and Ethers	Alcohols: Nomenclature, methods of preparation, physical and chemical properties (of primary alcohols only),Phenols: Nomenclature, methods of preparation, physical and chemical properties, acidic nature of phenol, electrophillic substitution reactions, uses of phenols	NCERT, Senses Board		https://youtu.be/IviTZ45FrJY?si=PahqgMIgkK4sGcZx	https://www.slideshare.net/slideshow/chemistry-art-integrated-project/240480505?utm_source=clipboard_share_button&utm_campaign=slideshare_make_sharing_viral_v2&utm_variation=control&utm_medium=share						
4	AUGUST	23	Week 1	2	Alcohol Phenol and Ether Aldehyde Ketones and acids	Carboxylic Acids: Nomenclature, acidic nature, methods of preparation, physical and chemical properties; uses.	NCERT, Senses Board, You Tube videos	Notes Preperation								
			Week 2	5		preparation, physical and chemical properties; uses.Aldehydes and Ketones: Nomenclature, nature of carbonyl group, methods of preparation	NCERT, Senses Board,	Notes Preperation								
			Week 3	5	Aldehyde Ketones and acids/Amines	Ketones Nomenclature, acidic nature, methods of preparation, physical and chemical properties; uses.	NCERT, Senses Board,	Detection of Functional group from unknown organic compounds	https://youtu.be/gKp1aM42VvI?si=ZOQmRqmsN51ZHh9x		**Problem-Based Learning (PBL):** Students work in groups to solve real-world chemistry problems (e.g., environmental issues, material science), fostering critical thinking and practical application				
			Week 4	6		Amines: Nomenclature, classification, structure, methods of preparation, physical and chemical properties	NCERT, Senses Board,	Detection of Functional group from unknown organic compounds								
			Week 5	5	Aldehyde Ketones and acids/Amines	identification of primary, secondary and tert	NCERT, Senses Board,									
5	EPTEMBE	25	Week 1	5	Term 1											
			Week 2	6	Term 1									learn the equations,MCQ,Assertion &Reason & Class Test			
			Week 3	6	Amines/ Biomolecules	uses, identification of primary, secondary and tertiary amines.	NCERT, Senses Board,		https://www.youtube.com/live/eBQ8J37A1Dw?si=Hlf_M5bqWYK3vV1z							
			Week 4	6		Diazonium salts: Preparation, chemical reactions and importance in synthetic organic chemistry.	NCERT, Senses Board,	Notes Preperation								

			Week 5	2	Biomolecules	Carbohydrates Proteins Enzymes Vitamins Carbohydrates Proteins Enzymes Vitamins Nucleic Acids Hormones	NCERT, Senses Board, You Tube videos				**Problem-Based Learning (PBL):** Students work in groups to solve real-world chemistry problems (e.g., environmental issues, material science), fostering critical thinking and practical application						
6	OCTOBEF	13	Week 1	3				Notes Preperation	https://youtu.be/uq96pSICjs4?si=KgbNx5Enhfjlxb6Q				learn the equations,MCQ,Assertion &Reason & Class Test				
			Week 2	6			NCERT, Senses Board,										
			Week 3	4		Revision	NCERT, Senses Board,	Notes Preperation				https://drive.google.com/drive/folders/1pDAuFtQwZldskXJ50-OuXzFJOkY_ufwB?usp=drive_link					
			Week 4	0													
			Week 5	0													
7	OVEMBE	23	Week 1	0													
			Week 2	5	PB-1		NCERT, Senses Board, Worksheets										
			Week 3	6	PB-1		NCERT, Senses Board, Worksheets										
			Week 4	6	PB-1		NCERT, Senses Board, Worksheets						learn the equations,MCQ,Assertion &Reason & Class Test				
			Week 5	6	Revision	Revision	NCERT, Senses Board, Sample Papers										
8	ECEMBE	20	Week 1	6	Revision	Revision	NCERT, Senses Board, Sample Papers										
			Week 2	6	PB-2												
			Week 3	6	PB-2												
			Week 4	6	Practice Test-1												
			Week 5	3	Practice Test-1												
9	ANUARY	22	Week 1	0													
			Week 2	6	PB-3												
			Week 3	5	PB-3												
			Week 4	6	PB-3												
			Week 5	5	Board Practica	Board Practical											

10	EBRUAR	23	Week 1	6	Board Practica	Board Practical												
			Week 2	6	Board Practica	Board Practical												
			Week 3	5														
			Week 4	6														
			Week 5	0														
11	MARCH	22	Week 1	5														
			Week 2	6														
			Week 3	5														
			Week 4	5														
			Week 5	1														