
 CLASS 12 CHEMISTRY — LO's Aligned Monthly Split-up Syllabus (April 2026–March 2027) + Portion Boundaries + Exams + Weightage + Question Paper Design + Blueprint (For CM SoE & Non-CM SoE) Developed by:- Jharkhand Council Of Educational Research & Training (Curriculum Division)						
Month	Teaching Days (Available)	NCERT Chapter Titles	Sub-topics / Portion Boundary	LOs (*LO Mapping - IDs) (NCERT Secondary Stage LO-2017)	Practicals / Activities (Minimum)	Assessment / Exams
Apr 2026	23	CHEM: Unit 1 Solutions (Complete)	Unit 1 Solutions: 1.1 Types of Solutions; 1.2 Expressing Concentration of Solutions; 1.3 Solubility; 1.4 Vapour Pressure of Liquid Solutions; 1.5 Ideal and Non-ideal Solutions; 1.6 Colligative Properties and Determination of Molar Mass; 1.7 Abnormal Molar Masses. Portion boundary: Unit 1 complete.	LO1, LO2, LO3, LO5, LO7, LO8, LO9, LO10, LO13, LO18	Lab/Activity: preparing solutions of known concentration; numericals on concentration terms; colligative properties—conceptual problems + graphs.	Project RAIL (April portion): 04-05-2026
May 2026	14	CHEM: Unit 2 Electrochemistry (Complete)	Unit 2 Electrochemistry: 2.1 Electrochemical Cells; 2.2 Galvanic Cells; 2.3 Nernst Equation; 2.4 Conductance of Electrolytic Solutions; 2.5 Electrolytic Cells and Electrolysis; 2.6 Batteries; 2.7 Fuel Cells; 2.8 Corrosion. Portion boundary: Unit 2 complete.	LO3, LO4, LO5, LO7, LO8, LO9, LO10, LO13, LO18, LO19	Lab/Activity: electrochemical cell (Daniell cell) demo; conductance measurement (concept/demo); corrosion conditions mini-investigation + reporting.	Project RAIL (May portion): 15-06-2026
Jun 2026	12	CHEM: Unit 3 Chemical Kinetics (Complete)	Unit 3 Chemical Kinetics: 3.1 Rate of a Chemical Reaction; 3.2 Factors Influencing Rate of a Reaction; 3.3 Integrated Rate Equations; 3.4 Temperature Dependence of the Rate of a Reaction; 3.5 Collision Theory of Chemical Reactions. Portion boundary: Unit 3 complete.	LO3, LO5, LO7, LO8, LO9, LO13, LO18	Lab/Activity: kinetics experiment (effect of concentration/temperature/catalyst) + rate graph; numericals on rate law and integrated rate equations.	Project RAIL (June portion): 06-07-2026
Jul 2026	23	CHEM: Unit 4 The d- and f-Block Elements (Complete)	Unit 4 The d- and f-Block Elements: 4.1 Position in the Periodic Table; 4.2 Electronic Configurations of the d-Block Elements; 4.3 General Properties of the Transition Elements (d-Block); 4.4 Some Important Compounds of Transition Elements; 4.5 The Lanthanoids; 4.6 The Actinoids; 4.7 Some Applications of d- and f-Block Elements. Portion boundary: Unit 4 complete.	LO1, LO2, LO5, LO6, LO7, LO9, LO15, LO18, LO19	Activity: d- and f-block electronic configuration charting; case-based questions on general properties and applications; short notes on important compounds.	Project RAIL (July portion): 03-08-2026
Aug 2026	22	CHEM: Unit 5 Coordination Compounds (Complete) + Revision	Unit 5 Coordination Compounds: 5.1 Werner's Theory of Coordination Compounds; 5.2 Definitions of Some Important Terms Pertaining to Coordination Compounds; 5.3 Nomenclature of Coordination Compounds; 5.4 Isomerism in Coordination Compounds; 5.5 Bonding in Coordination Compounds; 5.6 Bonding in Metal Carbonyls; 5.7 Importance and Applications of Coordination Compounds. Portion boundary: Unit 5 complete. + Half-yearly revision/practice (Units 1–5).	LO1, LO2, LO5, LO6, LO7, LO8, LO9, LO13, LO18	Activity: nomenclature drill (IUPAC) + isomerism models; bonding (VBT/CFT overview as per text); practical file completion + Half-yearly revision set (Units 1–5).	Half Yearly Examination: 07-09-2026 to 12-09-2026 (covers Apr–Aug taught portion: Units 1–5)


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Sep 2026	14	CHEM: Unit 6 Haloalkanes and Haloarenes (Complete); CHEM: Unit 7 Alcohols, Phenols and Ethers (Start)	Half-yearly follow-up + continuation: Unit 6 Haloalkanes and Haloarenes: 6.1 Classification; 6.2 Nomenclature; 6.3 Nature of C–X Bond; 6.4 Methods of Preparation of Haloalkanes; 6.5 Preparation of Haloarenes; 6.6 Physical Properties; 6.7 Chemical Reactions; 6.8 Polyhalogen Compounds. Unit 7 (start): 7.1 Classification; 7.2 Nomenclature; 7.3 Structures of Functional Groups. Portion boundary: Unit 6 complete; Unit 7 up to 7.3.	LO1, LO2, LO3, LO4, LO5, LO7, LO8, LO9, LO10, LO12, LO18, LO19	Lab/Activity: classification/nomenclature worksheets; conversion practice set (haloalkanes/haloarenes) + safety and environmental context (polyhalogen compounds).	Project RAIL (September portion): 05-10-2026	
Oct 2026	21	CHEM: Unit 7 Alcohols, Phenols and Ethers (Finish); CHEM: Unit 8 Aldehydes, Ketones and Carboxylic Acids (Complete)	Unit 7 (finish): 7.4 Alcohols and Phenols; 7.5 Some Commercially Important Alcohols; 7.6 Ethers. Unit 8 Aldehydes, Ketones and Carboxylic Acids: 8.1 Nomenclature and Structure of Carbonyl Group; 8.2 Preparation of Aldehydes and Ketones; 8.3 Physical Properties; 8.4 Chemical Reactions; 8.5 Uses of Aldehydes and Ketones; 8.6 Nomenclature and Structure of Carboxyl Group; 8.7 Methods of Preparation of Carboxylic Acids; 8.8 Physical Properties; 8.9 Chemical Reactions; 8.10 Uses of Carboxylic Acids. Portion boundary: Units 7 & 8 complete.	LO1, LO2, LO3, LO4, LO5, LO7, LO8, LO9, LO10, LO12, LO18	Lab/Activity: qualitative tests (where feasible): alcohols/phenols/aldehydes/ketones/carboxylic acids; conversion practice set + named reactions list as per text.	Project RAIL (October portion): 02-11-2026	
Nov 2026	16	CHEM: Unit 9 Amines (Complete); CHEM: Unit 10 Biomolecules (Complete) + Quick Revision	Unit 9 Amines: 9.1 Structure of Amines; 9.2 Classification; 9.3 Nomenclature; 9.4 Preparation of Amines; 9.5 Physical Properties; 9.6 Chemical Reactions; 9.7 Method of Preparation of Diazonium Salts; 9.8 Physical Properties; 9.9 Chemical Reactions; 9.10 Importance of Diazonium Salts in Synthesis of Aromatic Compounds. Unit 10 Biomolecules: 10.1 Carbohydrates; 10.2 Proteins; 10.3 Enzymes; 10.4 Vitamins; 10.5 Nucleic Acids; 10.6 Hormones. Portion boundary: Full syllabus completed (Units 1–10).	LO1, LO2, LO3, LO4, LO5, LO7, LO8, LO9, LO10, LO12, LO18, LO19	Lab/Activity: qualitative tests for amines (where feasible) + diazonium salt applications; biomolecules tests (carbohydrates/proteins) simple; full-syllabus sample paper 1 + analysis.	Syllabus completion target for Class 12: Nov 2026	
Dec 2026	15	Full Syllabus Practice & Remedial (Pre-Board Block) + Practical/Viva Revision	Full syllabus mixed practice: board-pattern questions (including competency/case-based); numericals; nomenclature; conversions; structures; targeted remediation based on gaps.	LO7, LO8, LO9, LO10, LO13, LO18	Minimum: 2 full mock papers + item-wise analysis; practical file completion + viva drill; remedial groups: (a) Physical chemistry (b) Inorganic (c) Organic (d) Biomolecules & mixed conversions.	Pre-Board + Remedial + Practice: 07-12-2026 to 12-12-2026 (Full syllabus)	
Jan 2027	17	Remedial classes + Practice until board exams (School level) Board Practical / Theory Exams: Feb–Mar 2027 (as per Board schedule)					
Feb 2027	18						
Mar 2027	20						
LOs (*LO Mapping - IDs) (NCERT Secondary Stage LO-2017)							

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LO ID	NCERT Learning Outcome					
LO1	differentiates materials, objects, organisms, phenomena, and processes, based on, properties and characteristics, such as, autotrophic and heterotrophic nutrition, biodegradable and non-biodegradable substances, various types of reactions, strong and weak acids and bases, acidic, basic, and neutral salts using different indicators, real and virtual images, etc.					
LO2	classifies materials, objects, organisms, phenomena, and processes, based on properties and characteristics, such as, metals and non-metals, acid and bases on the basis of their physical and chemical properties.					
LO3	plans and conducts investigations and experiments to arrive at and verify the facts, principles, phenomena, or to seek answers to queries on their own, such as, investigates conditions necessary for rusting, tests the conductivity of various solutions, compares the foaming capacity of different types of soap samples, verifies laws of reflection and refraction of light, Ohm's law, etc.					
LO4	relates processes and phenomena with causes and effects, such as, hormones with their functions, tooth decay with pH of saliva, growth of plants with pH of the soil, survival of aquatic life with pH of water, blue colour of sky with scattering of light, deflection of compass needle due to magnetic effect of electric current, etc.					
LO5	explains processes and phenomena, such as, nutrition in human beings and plants, transportation in plants and animals, extraction of metals from ores, placement of elements in modern periodic table, displacement of metals from their salt solutions on the basis of reactivity series, working of electric motor and generator, twinkling of stars, advanced sunrise and delayed sunset, formation of rainbow, etc.					
LO6	draws labelled diagrams, flow charts, concept maps, and graphs, such as, digestive, respiratory, circulatory, excretory, and reproductive systems, electrolysis of water, electron dot structure of atoms and molecules, flow chart for extraction of metals from ores, ray diagrams, magnetic field lines, etc.					
LO7	analyses and interprets data, graphs, and figures, such as, melting and boiling points of substances to differentiate between covalent and ionic compounds, pH of solutions to predict the nature of substances, V-I graphs, ray diagrams, etc.					
LO8	calculates using the data given, such as, number of atoms in reactants and products to balance a chemical equation, resistance of a system of resistors, power of a lens, electric power, etc.					
LO9	uses scientific conventions to represent units of various quantities, symbols, formulae, and equations, such as, balanced chemical equation by using symbols and physical states of substances, sign convention in optics, SI units, etc.					
LO10	handles tools and laboratory apparatus properly; measures physical quantities using appropriate apparatus, instruments, and devices, such as, pH of substances using pH paper, electric current and potential difference using ammeter and voltmeter, etc.					
LO11	applies learning to hypothetical situations, such as, what will happen if all herbivores are removed from an ecosystem? What will happen if all non-renewable sources of energy are exhausted?					
LO12	applies scientific concepts in daily life and solving problems, such as, suggest precautions to prevent sexually transmitted infections, uses appropriate electrical plugs (5/15A) for different electrical devices, uses vegetative propagation to develop saplings in gardens, performs exercise to keep in good health, avoids using appliances responsible for ozone layer depletion, applies concept of decomposition reaction of baking soda to make spongy cakes, etc.					
LO13	derives formulae, equations, and laws, such as, equivalent resistance of resistors in series and parallel, etc.					
LO14	draws conclusion, such as, traits or features are inherited through genes present on chromosomes, a new species originates through evolutionary processes, water is made up of hydrogen and oxygen, properties of elements vary periodically along the groups and periods in periodic table, potential difference across a metal conductor is proportional to the electric current flowing through it, etc.					

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LO16	exhibits creativity in designing models using eco-friendly resources, such as, working model of respiratory, digestive, and excretory systems, soda acid fire extinguisher, periodic table, micelles formation, formation of diamond, graphite, and Buckminsterfullerene, human eye, electric motor and generator, etc.					
LO17	exhibits values of honesty, objectivity, rational thinking, and freedom from myth and superstitious beliefs while taking decisions, respect for life, etc., such as, reports and records experimental data accurately, says no to consumption of alcohol and drugs, sensitises others about its effect on physical and mental health, sensitises for blood and organ donations, understands the consequences of pre-natal sex determination, etc.					
LO18	communicates the findings and conclusions effectively, such as, those derived from experiments, activities, and projects orally and in written form using appropriate figures, tables, graphs, and digital forms, etc.					
LO19	makes efforts to conserve environment realising the inter-dependency and inter-relationship in the biotic and abiotic factors of environment, such as, appreciates and promotes segregation of biodegradable and non-biodegradable wastes, minimises the use of plastics, takes appropriate steps to promote sustainable management of resources in day-to-day life, advocates use of fuels which produce less pollutants, uses energy efficient electric devices, uses fossil fuels judiciously, etc.					

A. THEORY BLUEPRINT

S.No.	Unit / Block	Marks	Details / Scope
1	Solutions	7	Unit 1
2	Electrochemistry	9	Unit 2
3	Chemical Kinetics	7	Unit 3
4	d- and f-Block Elements	7	Unit 4
5	Coordination Compounds	7	Unit 5
6	Haloalkanes and Haloarenes	6	Unit 6
7	Alcohols, Phenols and Ethers	6	Unit 7
8	Aldehydes, Ketones and Carboxylic Acids	8	Unit 8
9	Amines	6	Unit 9
10	Biomolecules	7	Unit 10
	TOTAL	70	Theory Paper: 3 Hours

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B. QUESTION PAPER DESIGN / BLUEPRINT						
Competency / Domain					Marks	Weightage
Remembering and Understanding					28	40%
Applying					21	30%
Analysing, Evaluating and Creating					21	30%
TOTAL					70	100%

C. TYPOLOGY OF QUESTIONS	
Item	Details
Paper Design Note	No chapter-wise weightage is provided in the official syllabus; care is to be taken to cover all chapters.
Internal Choice	There will be no overall choice in the question paper; however, 33% internal choices are provided in all sections.

D. PRACTICAL BLUEPRINT — 30 MARKS			
S.No.	Component	Marks	Details
1	Volumetric Analysis	8	
2	Salt Analysis	8	
3	Content Based Experiment	6	
4	Project Work	4	
5	Class Record and Viva	4	
	TOTAL	30	