

CHEMISTRY SYLLABUS 2026-27

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		MID TERM 1	HALF YEARLY	MID TERM 2	FINAL TERM
		Language of Chemistry	Language of Chemistry	Atomic Structure	Language of Chemistry
		Hydrogen	Hydrogen	Water	Hydrogen
			Matter		Matter
			Physical and chemical changes		Physical and chemical changes
			Elements, Compounds and Mixtures		Elements, Compounds and Mixtures
			Chemical Reactions		Chemical Reactions
					Atomic Structure
					Water
					Carbon and its compounds
SYLLABUS DETAILS ACCORDING TO NEP (COMPETENCIES TO BE ACHIEVED)					
EXAM	MONTHS	CHAPTER	LOTS → Focus on recall, identification, basic understanding	MOTS → Focus on application, explanation, classification	HOTS → Focus on analysis, evaluation, creation, critical thinking
MID TERM 1 + HYA + FA	April	Ch- 5 Language of Chemistry	LOTS (Learning of Facts) Define atom, molecule, element, compound, radical, valency Recall symbols of common elements and radicals State rules for writing chemical formulae	MOTS (Understanding & Application) Apply valency to write chemical formulae Interpret simple chemical equations Differentiate between atoms, molecules, and compounds	HOTS (Analysis & Evaluation) Analyze correctness of given chemical formulae Predict formulae of compounds using valency concepts Justify the importance of chemical language in science communication
MID TERM 1 + HYA + FA	May - June	Ch 7 – Hydrogen	LOTS State physical and chemical properties of hydrogen Recall occurrence and preparation methods Define oxidation and reduction in terms of hydrogen	MOTS Explain laboratory preparation of hydrogen Interpret reactions involving hydrogen Relate properties to its uses	HOTS Analyze hydrogen as a reducing agent Compare hydrogen with metals/non-metals Evaluate its role as a future fuel
HYA + FA	June - July	Ch 6 – Chemical Reactions	LOTS Define chemical reaction List types of reactions	MOTS Identify types of reactions Write word and skeletal equations	HOTS Analyze reactions and predict products Justify type of reaction with reasoning
HYA + FA	July	Ch 1 – Matter	LOTS Define matter and its states List properties of solids, liquids, and gases	MOTS Explain interconversion of states Apply particle theory to explain properties	HOTS Analyze changes in state under different conditions Justify the behavior of matter using kinetic theory
HYA + FA	July	Ch 2 – Physical and Chemical Changes	LOTS Define physical and chemical change List characteristics of each	MOTS Differentiate between physical and chemical changes Classify given changes	HOTS Analyze real-life processes Justify whether a change is reversible/irreversible
HYA + FA	August	Ch 3 – Elements, Compounds and Mixtures	LOTS Define element, compound, mixture List types of mixtures	MOTS Differentiate between elements, compounds, and mixtures Apply separation techniques	HOTS Analyze methods of separation for given situations Evaluate purity of substances
MID TERM 2 + HYA + FA	October - November	Ch 4 – Atomic Structure	LOTS Define atom, electron, proton, neutron State atomic number and mass number	MOTS Draw atomic structure of first 20 elements Apply electronic configuration	HOTS Analyze stability of atoms Predict valency from electronic configuration
HYA + FA	November - December	Ch 8 – Water	LOTS State composition and properties of water Define hard and soft water	MOTS Explain water cycle Differentiate types of hardness	HOTS Analyze methods of water purification Evaluate importance of water conservation
HYA + FA	December - January	Ch 9 – Carbon and Its Compounds	LOTS Define carbon and its properties List types of carbon compounds	MOTS Explain covalent bonding Classify hydrocarbons	HOTS Analyze properties of carbon compounds Evaluate importance of carbon in daily life