



# ST. LAWRENCE HIGH SCHOOL

27, BALLYGUNGE CIRCULAR ROAD, KOLKATA - 700019

Session Plan/ Syllabus Coverage for the Academic Year 2025-2026



Subject: Chemistry  
No. of Working Days: 99

Term: 1<sup>st</sup> Term  
No. of Periods Available: 68

Subject Co-ordinator: Mr. Arnab Paul Chowdhury  
Class: XI

Name of the Book: ISC Chemistry (Nootan)  
Sections: A

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	CLASS WORK	TEACHING AIDS
April	9	CH-1: Some basic concepts of Chemistry (P.No.-3-32)	CH- 1: Mole concept, Eudiometry, Stoichiometry, Concept of equivalent mass, Concept of different types of concentration terms	The marks distribution of the ISC council for the relevant chapter and model question-answer would be discussed. (P.No. 64-90 and REVIEW EXCERCISES)	Audio visual display on mole concept, limiting reagent and strength calculation
		CH-2: Structure of atom (Vol.1_P.No.-112-129)	CH- 2 : Atomic theories, Photoelectric effect, Atomic spectra, Wave particle dualism, Concept of quantum numbers, writing electronic configuration	Numerical & Road map problems and conceptual mechanism-based questions would be solved (Ref: Test papers and previous years ISC question papers) (P.No. 136-156 and REVIEW EXCERCISES)	3D model on shapes of orbitals and electromagnetic radiation
May	9	CH-1: Some basic concepts of Chemistry (P.No.-33-63) (To be continued)	CH-1 : Mole concept, Eudiometry, Stoichiometry, Concept of equivalent mass, Concept of different types of concentration terms i.e. Molarity, Normality, Molality, Mole fraction	Concepts related to all the subtopics will be discussed and different types of numerical will be solved (Ref: Test papers and previous years ISC question papers) (P.No. 64-90 and REVIEW EXCERCISES)	Audio visual display on mole concept, limiting reagent and strength calculation
		CH-2: Structure of atom (To be continued) (P.No.-91-111)	CH- 2 : Atomic theories, Photoelectric effect, Atomic spectra, Wave particle dualism, Concept of quantum numbers, writing electronic configuration	Concepts related to all the subtopics will be discussed and different types of numerical will be solved (Ref: Test papers and previous years ISC question papers) (P.No. 136-156 and REVIEW EXCERCISES)	3D model on shapes of orbitals and electromagnetic radiation
June	9	CH-3: Classification of elements and periodicity in properties (P.No.-151 -168) CH-4: Chemical bonding and Molecular Structure (P.No.-197 -242) CH-12: Organic Chemistry: Basic principles and techniques (P.No.-657-663)	CH-3 : Development of periodic table, periodic laws, discussion on Periodic properties in detail. CH- 4 : Ionic bond and Lattice energy, Basic covalent bonding theories like Kossel-Lewis model, VSEPR theory MOT, Concept of dipole moment and hydrogen bonding CH-12: Organic Chemistry & Organic compounds, Nomenclature, F.G.,H.S._	Concepts related to all the subtopics will be discussed and different types of numerical will be solved (P.No. 186-196 and REVIEW EXCERCISES) Concepts related to all the subtopics will be discussed and different types of numerical will be solved (Ref: Test papers and previous years ISC question papers) (P.No. 263-277 and REVIEW EXCERCISES)	Display of the Modern periodic table in class and study of the periodic trends  3D models on geometry and shapes of different molecules and ions based on VSEPR theory
		Unit Test -I begins from 16 <sup>th</sup> June. Syllabus for Unit Test – 1: CH –1 : Some Basic concepts of chemistry ( Vol.1_P.No.-33-63) CH –2 : Structure of atom ( Vol.1_P.No.-112-119)			
July	18	CH-6: Chemical Thermodynamics (P.No.-332 -398)	CH-6: Thermodynamic Laws (1 <sup>st</sup> , 2 <sup>nd</sup> , 3 <sup>rd</sup> and Zeroth law), numerical based of First law of thermodynamics, Hess’s Law( numerical), Numerical based on second law of thermodynamics, Gibb’s free energy change and spontaneity of a chemical process	Concepts related to all the subtopics will be discussed and different types of numerical will be solved (P.No. 381-398 and REVIEW EXCERCISES)	Demonstration of different graphical presentation
		CH- 12: Organic Chemistry: Basic principles and techniques P.No.-664 -740)	CH-12: IUPAC nomenclature, Isomerism related to Organic chemistry, electronic effects, stability order among reactive intermediates,	Different types of techniques will be demonstrated (P.No. 766-788 and REVIEW EXCERCISES)	Laboratory demonstration
Aug	16	CH-7: Equilibrium (Physical & Chemical Equilibria) (P.No.-399-424) CH- 12: Organic Chemistry: Basic principles and techniques (P.No.-741 -778) CH-13: Hydrocarbon (P.No.-789-813)	CH- 7 : Concept of chemical equilibrium, Equilibrium constants(K <sub>w</sub> , K <sub>c</sub> and K <sub>p</sub> ), Le-Chatelier’s principle CH-12: Organic qualitative and quantitative analysis  CH-13: Classification of Hydrocarbons, Alkanes, Alkene & Alkyne	Concepts related to all the subtopics will be discussed and different types of numerical will be solved (P.No. 461-492 and REVIEW EXCERCISES)	Video on the preparation, industrial importance, and properties
		Sept 1 <sup>st</sup> term exam begins on 15.09.25	7	CH-7: Equilibrium (Ionic Equilibria) (P.No.- 425-435) Revision for the 1 <sup>st</sup> Term	Syllabus for 1 <sup>st</sup> Term
Syllabus for 1 <sup>st</sup> Term examination – CH-1: Some basic concepts of Chemistry, CH-2: Structure of atom, CH-3: Classification of elements and periodicity in properties, CH-4: Chemical bonding and Molecular structure, UNIT 6: Chemical Thermodynamics, CH-12: Organic Chemistry: Basic principles and techniques, CH-7: Equilibrium (Physical & Chemical Equilibria), CH-13: Hydrocarbon					

Teachers are requested to prepare a LESSON PLANS for each Topic month wise.

Signature of the Co-Teachers: 1.

*Arnab Paul Chowdhury*

PRINCIPAL:

Submitted on:

13.5.25

Academic Co-coordinator:

21.04.2025  
*Soumak Chatterji*

VICE PRINCIPAL:

*R. K. S.*





# ST. LAWRENCE HIGH SCHOOL

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Session Plan/ Syllabus Coverage for the Academic Year 2025-2026

Subject: Chemistry

Term: 2<sup>nd</sup> Term

Subject Co-ordinator: Mr. Arnab Paul Chowdhury

Name of the Book: ISC Chemistry(Nootan)

No. of Working Days: 92

No. of Periods Available: 64

Class: XI

Sections: A

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	CLASS WORK	TEACHING AIDS
Oct 2 <sup>nd</sup> term begins from 07.10.25	12	CH-13: Hydrocarbon (P.No.-814-827)	CH-13: Aromaticity and chemistry of benzene, its preparations, properties and chemical equations, special emphasis on different types of Aromatic electrophilic substitution reactions.	Concepts related to all the subtopics will be discussed and different types of numerical will be solved (Ref: Test papers and previous years ISC question papers). (P.No. 840-855 and REVIEW EXERCISES)	Audio visual display on basic concepts and laboratory demonstration on pH and indicators
		CH-8: Redox reactions (Vol.1_P.No.-495 -528)	CH-8: Concept of oxidation state, Determination of O.N., balancing chemical equation by Oxidation Number method and Ion electron method (in acidic, basic, and neutral medium	Concepts related to all the subtopics will be discussed and different types of numerical will be solved (Ref: Test papers and previous years ISC question papers) (P.No. 515-528 and REVIEW EXERCISES)	Presentation on balancing redox reactions by both oxidation number method and ion electron method
**** Last Date of Submission of CHEMISTRY Project is 24.10.2025 ****					
Nov	16	CH-7: Equilibrium (Ionic Equilibria) (P.No.- 436-443) Revision for the 2 <sup>nd</sup> Term examination	CH-7: pH, Buffer solution, Common ion effect,	Concepts related to all the subtopics will be discussed and different types of numerical will be solved (Ref: Test papers and previous years ISC question papers) (P.No. 461-492 and REVIEW EXERCISES)	Interactive lecture. Demonstration of different formula, practical application of Ionic equilibria
		Unit Test -2 begins from 17 <sup>th</sup> November. Syllabus for Unit Test – 2: Chapters 8 (P. No.- 495-528) & 13(P. No.- 799-813)			
Dec	13	CH-13: Hydrocarbon (P.No.-828-833)	CH-13: Aromaticity and chemistry of benzene, its preparations, properties and chemical equations, special emphasis on different types of Aromatic electrophilic substitution reactions, Carcinogenicity & Toxicity	Concepts related to all the subtopics will be discussed and different types of numerical will be solved (Ref: Test papers and previous years ISC question papers) (P.No. 840-855 and REVIEW EXERCISES for Chapter-13)	1 Presentation using 3D models, application of hydrocarbon in industry and inter-conversion methods of different hydrocarbons
Jan’ 2026	15	CH-7: Equilibrium (Ionic Equilibria) (P.No.- 444-456)	CH-7: Solubility Product, Hydrolysis of salts	(P.No. 461-492 and REVIEW EXERCISES for Chapter-7)	Presentation using 3D models, inter-conversion methods of different hydrocarbons
Feb’2026 2 <sup>nd</sup> term exam begins from 16.02.26	8	Revision for the Annual examination	Syllabus for Annual examination	Discussion of different types of QA related to current year’s sample question paper	Interactive lecture.
		<u>Syllabus for 2<sup>nd</sup> Term examination</u> – All the units i.e. from Chapter- 1 to Chapter-13			
March’ 2026	Correction work continues				

Teachers are requested to prepare a LESSON PLANS for each Topic month wise.

Signature of the Co-Teachers: 1.

*Arnab Paul Chowdhury*

2.

Submitted on:

13.5.25  
24.04.2025

Academic Co-ordinator:

*Soumak Chatterji*

PRINCIPAL

VICE PRINCIPAL

*Rajoy*