



ST. LAWRENCE HIGH SCHOOL

A Jesuit Christian Minority Institution
27, BALLYGUNGE CIRCULAR ROAD, KOLKATA-700019



Mr. ARNAB PAUL CHOWDHURY &

Mr. SUBHAJIT BHATTACHARYA

TERM: 1st Term

TEACHER'S NAME:

Subject: CHEMISTRY

CLASS: 10

SECTION: A,B,C,D

Syllabus planning for the academic year 2018

No. of working days:-61

No. of periods available: 19 (ESTIMATED)

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	HOMEWORK	CLASS WORK
JANUARY	07	Physical and Chemical properties of matter: Periodic Table	Concept of Periodic table (Groups and periods), Mendeleev's and Modern periodic table, position of Hydrogen, Periodic Properties of elements	Conceptual question-answer from exercise	Classroom discussion on the mentioned topics, discussion on periodic properties and conceptual question-answer NOTE: Instruction for model answer pattern will be explained to the students regarding MCQ, VSAQ, SAQ and LAQ type questions
FEBRUARY	08	Physical and Chemical properties of matter: Chemical Bonding (Ionic and covalent bonding)	Properties of Ionic and covalent compounds, Kossel's proposal for ionic bonding	Conceptual question-answer from exercise	Classroom discussion on the mentioned topics, conceptual question-answer discussion, surprise tests will be taken on Periodic table and chemical bonding
MARCH	04	Physical and Chemical properties of matter: Chemical Bonding (contd..) and Revision lessons Chemical Calculations Stoichiometric equation	Properties of Ionic and covalent compounds, Kossel's proposal for ionic bonding And Conservation of mass in chemical reactions, stoichiometric equations, numericals	Conceptual question-answer from exercise and Numerical	Numerical and revision of Periodic Table, Chemical Bonding (Ionic and covalent bonding) and Chemical Calculations & Surprise test based on Revision lessons
APRIL					Classroom discussion on the mentioned topics, conceptual question-answer discussion NOTE: 16th April - 1st Term (Syllabus: Periodic Table, Chemical Bonding, Chemical Calculation)

Teachers are requested to prepare a LESSON PLAN for each Topic to be taught. The Lesson plans are to be submitted along with the monthly planner.

PRINCIPAL

Submitted on : 25.01.2018

Signature of Teacher : Arnab Paul Chowdhury

ACADEMIC CO-ORDINATOR

Signature of Academic Co-ordinator
25/1/18
St. Lawrence High School

VICE PRINCIPAL

Signature of Vice Principal



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Mr. ARNAB PAUL CHOWDHURY &
Mr. SUBHAJIT BHATTACHARYA

Syllabus planning for the academic year 2018

No. of working days:- 50

TERM: PRE-SELECTION

Subject: CHEMISTRY

No. of periods available: 29

CLASS: 10

TEACHER'S NAME:

SECTION: A,B,C,D.

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	HOMEWORK	CLASS WORK
MAY	04	Physical and Chemical properties of matter: Electrolysis and Industrial manufacture of HCl, HNO ₃ AND H ₂ SO ₄	Electrolytes(Strong and weak electrolyte),Mechanism of electrical conduction by electrolytes in molten or solution state,Electrolysis,application of electrolysis And Preparation and properties of HCl, HNO ₃ AND H ₂ SO ₄	Conceptual question-answer and its application, importance What happens when type questions related to chemical reactions of HCl, HNO ₃ AND H ₂ SO ₄ NOTE: Project work(Method-Nature Study)assignment for physical science will be given for summer vacation	Reaction of preparation in laboratory, Contact process(H ₂ SO ₄) and Ostwald process (HNO ₃) identification tests, uses of the acids; surprise test on electrolysis and industrial manufacture of HCl, HNO ₃ AND H ₂ SO ₄ Note: Project work assignment for physical science will be given by 11th May and all students must be well-intimated(Method: Nature Study)
JUNE	09	Physical and Chemical properties of matter: NH ₃ , H ₂ S AND N ₂	Preparation and properties of NH ₃ , H ₂ S AND N ₂	What happens when type questions related to chemical reactions of NH ₃ , H ₂ S AND N ₂	Classroom discussion on the mentioned topics, conceptual question-answer from exercise NOTE: Last date for the submission of project will be 18th June
JULY	09	Physical and Chemical properties of matter: NH ₃ , H ₂ S AND N ₂ (Contd...)	Preparation and properties of NH ₃ , H ₂ S AND N ₂	What happens when type questions related to chemical reactions of NH ₃ , H ₂ S AND N ₂	Surprise test based on Revision lessons NOTE:25th July – 2nd Term (Syllabus: Entire 1st term syllabus and NH₃, H₂S AND N₂)
AUGUST	07	Physical and Chemical properties of matter: Organic chemistry and metallurgy	<u>Organic chemistry:</u> Tetravalency,catenation and isomerism, homologous series, IUPAC nomenclature, Preparation, reaction and industrial application of CH ₄ ,C ₂ H ₆ and C ₂ H ₂ And <u>Polymers:</u> monomeric units, uses of PET,PVC,Teflon; biodegradable polymers Uses & properties of ethyl alcohol, acetic acid; harmful effects of methanol and ethanol	IUPAC nomenclature and Conceptual question-answer from exercise	Classroom discussion on the mentioned topics, conceptual question-answer from exerciseand IUPAC nomenclature NOTE: Instruction for model answer pattern will be explained to the students regarding MCQ,VSAQ,SAQ and LAQ type questions

Teachers are requested to prepare a LESSON PLAN for each Topic to be taught. The Lesson plans are to be submitted along with the monthly planner.

PRINCIPAL

Submitted on : 25.01.2018

Signature of Teacher : *Subhajit Bhattacharya*

ACADEMIC CO-ORDINATOR

all 25/1/18
St. Lawrence High School

VICE PRINCIPAL *Arnab Paul*



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Mr. ARNAB PAUL CHOWDHURY &
Mr. SUBHAJIT BHATTACHARYA

Syllabus planning for the academic year 2018

No. of working days:- 57

TERM: SELECTION
Subject: CHEMISTRY
No. of periods available: 18

CLASS: 10

TEACHER'S NAME:
SECTION: A,B,C,D

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	HOMEWORK	CLASS WORK
SEPTEMBER	09	Physical and Chemical properties of matter: Organic chemistry and metallurgy (Contd...)	Polymers: monomeric units, uses of PET,PVC,Teflon; biodegradable polymers Uses & properties of ethyl alcohol, acetic acid; harmful effects of methanol and ethanol And Extraction of metals, composition and uses of alloy, chemical reactions	conceptual question-answer from exercise and miscellaneous question-answer from exercise NOTE: Project work(Method-Case Study)assignment for physical science will be given for summer vacation	Classroom discussion on the mentioned topics, conceptual question-answer from exercise and surprise test Note: Project work assignment for physical science will be given by 7th September and all students must be well-intimated(Method: Case Study)
OCTOBER	04	Concerns about our Environment: Physical science & Rational use of Energy Revision lessons of 1 st and 2 nd terms	Types of energy, Bio fuels, sustainable development, Fossil fuel, ozone layer, greenhouse effect And	conceptual question-answer from exercise and miscellaneous question-answer from exercise	Classroom discussion on the mentioned topics, conceptual question-answer from exercise and surprise test NOTE: Last date for the submission of project will be 4th October
NOVEMBER	05	Revision lessons of 1 st and 2 nd terms	Revision of the chapters	conceptual question-answer from exercise and miscellaneous question-answer from exercise	Surprise test and discussion NOTE: 1st Nov- 3rd Term(Selection Examination) (Syllabus: Entire Syllabus for Madhyamik Examination)
DECEMBER					

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PRINCIPAL

Submitted on : 25.01.2018

Signature of Teacher : *Subhajit Bhattacharya*

ACADEMIC CO-ORDINATOR

me
25/1/18
St. Lawrence High School

VICE PRINCIPAL

Subhajit