



FOR GOD AND COUNTRY

# ST. LAWRENCE HIGH SCHOOL

27, BALLYGUNGE CIRCULAR ROAD, KOLKATA-700019

TERM: .....1<sup>ST</sup> TERM.....

Syllabus planning for the academic year 2019

Subject: .....CHEMISTRY.....

CLASS: .....10.....

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

Mr. ARNAB PAUL CHOWDHURY

Mrs. RUMELI DASGUPTA

Mr. SOUMAK CHATTERJEE

No. of working days:-.....86.....

No. of periods available: ....28.....

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	HOMEWORK	CLASS WORK
JANUARY	09	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 <b>NOTE:</b> Instruction for model answer pattern will be explained to the students regarding <b>MCQ, VSAQ, SAQ</b> and <b>LAQ</b> type questions
FEBRUARY	05	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	06	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	08	Physical and Chemical properties of matter: Electrolysis and Industrial manufacture of HCl, HNO <sub>3</sub> AND H <sub>2</sub> SO <sub>4</sub>	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 <sub>3</sub> AND H <sub>2</sub> SO <sub>4</sub>	Conceptual question-answer and its application, importance And What happens when type questions related to chemical reactions of HCl, HNO <sub>3</sub> AND H <sub>2</sub> SO <sub>4</sub>	Classroom discussion on the mentioned topics, conceptual question-answer discussion <b>NOTE: 9<sup>th</sup> April- 1<sup>st</sup> Term</b> <b>(Syllabus:</b> Periodic Table, Chemical Bonding, Chemical Calculation, Electrolysis and Industrial manufacture of HCl, HNO <sub>3</sub> AND H <sub>2</sub> SO <sub>4</sub> )

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

Name of the Teacher : MR. ARNAB PAUL CHOWDHURY, MR. SOUMAK CHATTERJEE, MRS. RUMELI DASGUPTA

Signature of Teacher :   
11.02.19Soumak Chatterjee - Rumeli Dasgupta  
11/02/19 11/2/19

Submitted on : 11.02.19

Academic Co-ordinator :

VICE PRINCIPAL :   
11.2.19

PRINCIPAL



# ST. LAWRENCE HIGH SCHOOL

27, BALLYGUNGE CIRCULAR ROAD, KOLKATA- 700019



TERM: .....2<sup>nd</sup> TERM.....

Syllabus planning for the academic year 2018

Subject: ..... CHEMISTRY.....

CLASS: ..... 10 .....

TEACHER'S NAME:

SECTION: ..... A.B. C. D .....

Mr. ARNAB PAUL CHOWDHURY

Mrs. RUMELI DASGUPTA

Mr. SOUMAK CHATTERJEE

No. of working days:-.....70.....

No. of periods available: .....34.....

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	HOMEWORK	CLASS WORK
MAY	05	Physical and Chemical properties of matter: Industrial manufacture of HCl, HNO <sub>3</sub> AND H <sub>2</sub> SO <sub>4</sub> (Contd...)	Preparation and properties of HCl, HNO <sub>3</sub> AND H <sub>2</sub> SO <sub>4</sub>	What happens when type questions related to chemical reactions of HCl, HNO <sub>3</sub> AND H <sub>2</sub> SO <sub>4</sub>  <b>NOTE:</b> Project work(Method-Nature Study)assignment for physical science will be given for summer vacation	Reaction of preparation in laboratory, Contact process(H <sub>2</sub> SO <sub>4</sub> ) and Ostwald process (HNO <sub>3</sub> ) identification tests, uses of the acids; surprise test on electrolysis and industrial manufacture of HCl, HNO <sub>3</sub> AND H <sub>2</sub> SO <sub>4</sub> <b>Note:</b> Project work assignment for physical science will be given by 6 <sup>th</sup> May and all students must be well-intimated( <b>Method: Nature Study</b> )
JUNE	09	Physical and Chemical properties of matter: NH <sub>3</sub> , H <sub>2</sub> S AND N <sub>2</sub>	Preparation and properties of NH <sub>3</sub> , H <sub>2</sub> S AND N <sub>2</sub>	What happens when type questions related to chemical reactions of NH <sub>3</sub> , H <sub>2</sub> S AND N <sub>2</sub>	Classroom discussion on the mentioned topics, conceptual question-answer from exercise <b>NOTE:</b> Last date for the submission of project will be 24 <sup>th</sup> June
JULY	13	Physical and Chemical properties of matter: NH <sub>3</sub> , H <sub>2</sub> S AND N <sub>2</sub> (Contd...)	Preparation and properties of NH <sub>3</sub> , H <sub>2</sub> S AND N <sub>2</sub>	What happens when type questions related to chemical reactions of NH <sub>3</sub> , H <sub>2</sub> S AND N <sub>2</sub>	Surprise test based on Revision lessons <b>NOTE:29<sup>th</sup> July – 2<sup>nd</sup> Term</b> <b>(Syllabus:</b> Entire 1 <sup>st</sup> term syllabus and NH <sub>3</sub> , H <sub>2</sub> S AND N <sub>2</sub> )
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 <sub>4</sub> ,C <sub>2</sub> H <sub>6</sub> and C <sub>2</sub> H <sub>2</sub> 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 <b>NOTE:</b> Instruction for model answer pattern will be explained to the students regarding <b>MCQ,VSAQ,SAQ</b> and <b>LAQ</b> type questions

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Name of the Teacher : ..... MR. ARNAB PAUL CHOWDHURY, MR. SOUMAK CHATTERJEE, MRS. RUMELI DASGUPTA .....

Signature of Teacher : ..... *Arnab Paul Chowdhury* 11.02.19, *Soumak Chatterjee* 11/02/19, *Rumeli Dasgupta* 11/2/19 .....

PRINCIPAL

Submitted on : ..... 11.02.19 .....

Academic Co-ordinator : ..... *Mu* 11.2.19 .....

VICE PRINCIPAL *Paul* 11/3/2/19



# ST. LAWRENCE HIGH SCHOOL

27, BALLYGUNGE CIRCULAR ROAD, KOLKATA-700019



TERM: .....3<sup>rd</sup> TERM.....

Syllabus planning for the academic year 2018

Subject: .....CHEMISTRY.....

CLASS: .....10.....

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

Mr. ARNAB PAUL CHOWDHURY

Mrs. RUMELI DASGUPTA

Mr. SOUMAK CHATTERJEE

No. of working days:-50.....

No. of periods available: ...16.....

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	HOMEWORK	CLASS WORK
SEPTEMBER	10	Physical and Chemical properties of matter: Organic chemistry and metallurgy (Contd...)	<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 And Extraction of metals, composition and uses of alloy, chemical reactions	conceptual question-answer from exercise and miscellaneous question-answer from exercise  <b>NOTE:</b> 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 <b>Note:</b> Project work assignment for physical science will be given by 2 <sup>nd</sup> September and all students must be well-intimated(Method: Case Study)
OCTOBER	06	Concerns about our Environment: Physical science & Rational use of Energy  Revision lessons of 1 <sup>st</sup> and 2 <sup>nd</sup> 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 <b>NOTE:</b> Last date for the submission of project will be 24 <sup>th</sup> September
NOVEMBER	NA	NA	NA	NA	Surprise test and discussion <b>NOTE: 4<sup>th</sup> Nov- 3<sup>rd</sup> Term(Selection Examination)</b> <b>(Syllabus:</b> Entire Syllabus for Madhyamik Examination)

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Name of the Teacher : MR. ARNAB PAUL CHOWDHURY, MR. SOUMAK CHATTERJEE, MRS. RUMELI DASGUPTA

Signature of Teacher : *Arnab Paul Chowdhury*, *Soumak Chatterji* - *Rumeli Dasgupta*  
11.02.19, 11/02/19, 11/2/19

Submitted on : 11.02.19

Academic Co-ordinator : *Mu*  
11.2.19

PRINCIPAL

VICE PRINCIPAL *7/13/2/19*