



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION
27, BALLYGUNGE CIRCULAR ROAD, KOLKATA- 700019



TEST

TERM: FIRST

TEACHER'S NAME: SOUMAK CHATTERJEE

Syllabus planning for the academic year 2021

Subject: PHYSICAL SCIENCE (CHEMISTRY)

CLASS: 10

SECTION: A, B, C, D

No. of working days: 71

MONTH	LESSONS	TOPICS COVERED	HOMEWORK	CLASS WORK
JANUARY	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 Position of elements in periodic table	Classroom discussion on the mentioned topics, discussion on periodic properties and conceptual question-answer
FEBRUARY	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 Lewis dot diagram	Classroom discussion on the mentioned topics, conceptual question-answer discussion
MARCH	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 Problems	Numerical and revision of Periodic Table, Chemical Bonding (Ionic and covalent bonding) and Chemical Calculations & Surprise test based on Revision lessons
APRIL First term from 16/4/21 to 28/4/21	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	Conceptual question-answer and its application, importance Electrolytic reactions	Classroom discussion on the mentioned topics, conceptual question-answer discussion

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.

Submitted on: 15/03/2021

Signature of Teacher: Soumak Chatterjee

PRINCIPAL

Academic Co-ordinator:

Soumak Chatterjee
15/03

VICE PRINCIPAL

Soumak Chatterjee
15/3/2021



ST. LAWRENCE HIGH SCHOOL

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TERM: PRE-TEST

TEACHER'S NAME: SOUMAK CHATTERJEE

Subject: PHYSICAL SCIENCE (CHEMISTRY)

CLASS: 10

SECTION: A, B, C, D

Syllabus planning for the academic year 2021

No. of working days: 62

MONTH	LESSONS	TOPICS COVERED	HOMEWORK	CLASS WORK
MAY	Physical and Chemical properties of matter: Industrial manufacture of HCl, HNO ₃ AND H ₂ SO ₄ (Contd...)	Preparation and properties of HCl, HNO ₃ AND H ₂ SO ₄	What happens when type questions related to chemical reactions of HCl, HNO ₃ AND H ₂ SO ₄	Reaction of preparation in laboratory, Contact process(H ₂ SO ₄) and Ostwald process (HNO ₃) identification tests, uses of the acids
JUNE	Physical and Chemical properties of matter: NH ₃	Preparation and properties of NH ₃	What happens when type questions related to chemical reactions of NH ₃	Classroom discussion on the mentioned topics, conceptual question-answer from exercise
JULY	Physical and Chemical properties of matter: H ₂ S & N ₂ (Contd...) Organic chemistry	Preparation and properties of H ₂ S AND N ₂ Tetravalency, catenation and isomerism, homologous series	What happens when type questions related to chemical reactions of H ₂ S AND N ₂	Concept and related problems
AUGUST Pre-test from 5/8/21 to 18/8/21	Physical and Chemical properties of matter: Organic chemistry and metallurgy	<u>Organic chemistry</u> : IUPAC nomenclature, Preparation, reaction and industrial application of CH ₄ , C ₂ H ₆ and C ₂ H ₂ And Polymers: 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 exercise and IUPAC nomenclature

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Submitted on: 15/03/2021

Signature of Teacher: Soumak Chatterjee

PRINCIPAL

Academic Co-ordinator:

VICE PRINCIPAL

Soumak Chatterjee
15/03
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15/3/2021



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TEST

TERM: SELECTION

TEACHER'S NAME: SOUMAK CHATTERJEE

Syllabus planning for the academic year 2021

Subject: PHYSICAL SCIENCE (CHEMISTRY)

CLASS: 10

SECTION: A, B, C, D

No. of working days: 66

MONTH	LESSONS	TOPICS COVERED	HOMEWORK	CLASS WORK
SEPTEMBER	Physical and Chemical properties of matter: Organic chemistry and metallurgy (Contd...) <u>Project submission date 16/09/2021</u>	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	Classroom discussion on the mentioned topics, conceptual question-answer from exercise and surprise test
OCTOBER	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
NOVEMBER	Revision lessons of 1 st and 2 nd terms	Revision of the chapters	conceptual question-answer from exercise and miscellaneous question-answer from exercise	Discussion, Doubt clearing sessions

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Submitted on: 15/03/2021

Signature of Teacher: *Soumak Chatterjee*

PRINCIPAL

Academic Co-ordinator:

Soumak Chatterjee
15/03

VICE PRINCIPAL

Soumak Chatterjee
15/3/2021