



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

TEST

TERM: FIRST AND SECOND TERM

TEACHER'S NAME: MALOSHREE NIYOGI, PIYALI HALDER, NANDINI CHATTERJEE

Syllabus planning for the academic year 2018

Subject: PHYSICAL SCIENCE CLASS: VIII

SECTION: A, B, C, D

No. of working days: 85

No. of periods available: 33

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	HOMEWORK	CLASS WORK
JANUARY	09	UNIVERSE HYDROGEN	Solar system, eclipses, Artificial satellites Preparation, physical and chemical properties of hydrogen, test and uses of hydrogen.	Objective type questions from Universe Short answer type questions from Hydrogen	Patterns and method of answering of MCQ, SAQ, LAQ, are given in the beginning of the term for each chapter in physics and chemistry.
					Evaluation question from Universe Objective questions from Hydrogen
FEBRUARY	11	REFRACTION OF LIGHT STRUCTURE OF ATOM	Refraction-terminology related to refraction, laws of refraction, refractive index, dispersion of white light. Sub atomic particles-their properties, atomic number, mass number, arrangement of electrons in atoms	Objective questions from Refraction of light Objective type questions from Structure of atoms	Numerical and short answer type questions from Refraction of light Short answer type questions from Structure of atoms
MARCH	04	TYPES OF LENSES	Concave and convex lenses, terminology related to lenses, real and virtual images.	Short answer type questions from Types of lenses	Ray diagrams and Objective type questions from Types of lenses
		SYLLABUS FOR THE FIRST TERM : PHYSICS – UNIVERSE, REFRACTION OF LIGHT, TYPES OF LENSES; CHEMISTRY – HYDROGEN, STRUCTURE OF ATOM (till page 43 before valency)			
APRIL	06	<u>SECOND TERM BEGINS</u>	Valency, radioactivity, nuclear fission and fusion, harmful effect of radiation, uses.	Objective type questions from Structure of atoms	Patterns and method of answering of MCQ, SAQ, LAQ, are given in the beginning of the term for each chapter in physics and chemistry.
		STRUCTURE OF ATOM OPTICAL INSTRUMENTS	Magnifying glass, compound microscope, Telescope, Photographic camera—working principal, Human eye-defects of vision	Short answer type question from Optical Instruments	Short answer type questions from Structure of atoms Diagrams, evaluation question from Optical Instruments

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 : 24.1.18

Signature of Teacher : *Nandini Chatterjee* *Piyali Halder* *All*
24/1/18

ACADEMIC CO-ORDINATOR

All 24/1/18
St. Lawrence High School

VICE PRINCIPAL *Piyali Halder*



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



TEST

TERM: SECOND TERM AND THIRD TERM

TEACHER'S NAME: MALOSHREE NIYOGI, PIYALI HALDER, NANDINI CHATTERJEE

Syllabus planning for the academic year 2018

Subject : PHYSICAL SCIENCE CLASS:VIII

SECTION: A, B, C,D

No. of working days:73

No. of periods available: 29

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	HOMEWORK	CLASS WORK
MAY	04	CARBON	Allotropy, Structure of diamond and graphite, amorphous form of carbon.	Objective type questions from Carbon	Short answer type questions from Carbon
JUNE	09	CARBON HEAT	Properties of carbon Thermal equilibrium, Specific heat capacity, specific latent heat, evaporation and cooling	Short answer type questions from Carbon Objective type questions from Heat	Objective type questions from Carbon Evaluation question from Heat
JULY	9	SOLID, LIQUID AND GASES	Elements and molecules, Kinetic theory of matter, transfer of matter in three states of matter, surface tension	Evaluation question from Solid, Liquid and gases	Objective type question from Solid, Liquid and gases
SECOND TERM SYLLABUS: PHYSICS – REFRACTION OF LIGHT, OPTICAL INSTRUMENTS, HEAT, SOLID LIQUID AND GASES ; CHEMISTRY – STRUCTURE OF ATOM, CARBON					
AUGUST	07	<u>THIRD TERM BEGINS</u> CARBON BASED FUEL PRESSURE IN FLUID	Thermal energy and related terms, Fossil fuels, Fighting fire Pressure, Characteristics of liquid pressure, Pascal's Law, Pressure exerted by gases. Barometer.	Objective questions from Carbon based fuel Evaluation questions from Pressure in fluid	Patterns and method of answering of MCQ, SAQ, LAQ, are given in the beginning of the term for each chapter in physics and chemistry. Different reactions and related questions from Carbon based fuel Diagrams and Objective type question from Pressure in fluid

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PRINCIPAL

Submitted on : 24.1.18

Signature of Teacher : *Nandini Chatterjee*

Nandini Chatterjee
24/1/18 24/1/18

ACADEMIC CO-ORDINATOR

Me
24/1/18
St. Lawrence High School

VICE PRINCIPAL

Maloshree Niyogi



ST. LAWRENCE HIGH SCHOOL

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TEST

TERM: THIRD TERM

TEACHER'S NAME: MALOSHREE NIYOGI, PIYALI HALDER, NANDINI CHATTERJEE

Syllabus planning for the academic year 2018

Subject: PHYSICAL SCIENCE

CLASS: VIII

SECTION: A, B, C, D

No. of working days: 34

No. of periods available: 13

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	HOMEWORK	CLASS WORK
SEPTEMBER	09	ARCHIMEDES' PRINCIPLE TRANSFORMATION OF SUBSTANCES STATIC ELECTRICITY	Buoyant force, Law of Flotation. Physical and chemical change, change in state, different types of chemical reactions, balancing of a chemical reaction. Static electricity, charging by conduction, induction, electricity in the atmosphere.	Objective type question from Archimedes' principle Short answer type questions and Numerical from Transformation of substances Objective type questions from Static Electricity	Evaluation question from Archimedes' principle Objective type questions and Numerical from Transformation of substances Evaluation question from Static Electricity
OCTOBER	04	ENERGY AND TYPES METALS AND NON METALS ELECTRICITY AND MAGNETISM REVISION OF THE FULL SYLLABUS	Different forms of energy, sources of energy, air pollution caused by fossil fuels. Comparative study of metals and non metals, chemical properties of metals and non metals, alloy and their uses. Properties of magnet, electromagnet, electromagnetic induction, transformer	Evaluation question questions from Energy and its types Objective type questions from Metals and non-metals Evaluation question from Electricity and magnetism	Objective type questions from Energy and its types Short answer type Questions from Metals and non-metals Objective type questions from Electricity and magnetism
NOVEMBER		THIRD TERM EXAM BEGINS			
THIRD TERM SYLLABUS : PHYSICS – ALL CHAPTERS; CHEMISTRY – ALL CHAPTERS					
DECEMBER					

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PRINCIPAL

Submitted on : 24.1.18

Signature of Teacher : *Nandini C. Chatterjee* *Piyali Halder* *Maloshree Niyogi*
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ACADEMIC CO-ORDINATOR

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J. Niyogi