



FOR GOD AND COUNTRY

# ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



Syllabus Planner for the year 2018

TERM: FIRST TERM

TEACHER'S NAME: NANDINI CHATTERJEE, MALOSHREE NIYOGI, SOUMITRA MAITY

No. of working days:- 61

No. of periods available: 22(ESTIMATED)

Subject: PHYSICS

CLASS: X.

SECTION: . A,B,C,D

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	HOMEWORK	CLASS WORK
JANUARY	07	BEHAVIOUR OF GASES	Boyle's law, Charles law, Avogadro's law, Avogadro's number, Ideal gas, Ideal gas equation, Gay-Lussac's law, Kinetic theory of gases	Objectives types questions from Behaviour of gases	Patterns and method of answering of MCQ, SAQ, LAQ, are given in the beginning of the term for each chapter in physics. Numerical, diagrams, applications from Behaviour of gases Ref bk : Numerical from Behaviour of gases
FEBRUARY	08	THERMAL PHENOMENA FIRST PROJECT TOPIC given in the class SURVEY CURRENT ELECTRICITY	Thermal expansion – linear, superficial, volume	Short Questions from Thermal Phenomena	Explanation and applications from Thermal Phenomena  Instructions for writing the project is discussed in the class.
MARCH	04	THERMAL PHENOMENA contd. LAST DATE OF FIRST PROJECT SUBMISSION ON PHYSICAL SCIENCE 23 <sup>RD</sup> MARCH 2018	Thermal conductivity, Thermal resistivity	Objectives types questions from Thermal Phenomena	Numerical, applications from Thermal Phenomena Ref bk : Questions from Thermal Phenomena
APRIL		REVISION OF BEHAVIOUR OF GASES, THERMAL PHENOMENA FIRST TERM EXAM BEGINS FROM 16.04.2018 H.S EXAM ENDS ON 11.04.2018	SYLLABUS OF FIRST TERM BEHAVIOUR OF GASES, THERMAL PHENOMENA		REVISION

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 C*.....

ACADEMIC CO-ORDINATOR

*Mu* 24/1/18  
St. Lawrence High School

*Maloshree Niyogi*  
VICE PRINCIPAL



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# ST. LAWRENCE HIGH SCHOOL

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Syllabus Planner for the year 2018

TERM: . PRE-SELECTION

TEACHER'S NAME: NANDINI CHATTERJEE, MALOSHREE NIYOGI, SOUMITRA MAITY

No. of working days:- 50

No. of periods available: 20

Subject: PHYSICS

CLASS: X.

SECTION: A,B,C, D

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	HOMEWORK	CLASS WORK
MAY	04	<b><u>SECOND TERM BEGINS</u></b>  LIGHT	Reflection at spherical mirror – convex and concave Refraction of light – laws, Laws of refraction Refractive index Deviation – glass slab and prism	Ray diagrams from Light	Patterns and method of answering of MCQ, SAQ, LAQ, are given in the beginning of the term for each chapter in physics. Ray diagrams from Light
JUNE	09	LIGHT contd.	Lenses – convex and concave, relative terms Human eye – structure and defects Dispersion, Light wave, Scattering	Ray diagrams from Light Objectives types questions from Light	Ray diagrams, applications from Light Ref. bk. : Questions from Light
JULY	09	CURRENT ELECTRICITY 25 <sup>TH</sup> JULY- PRE TEST STARTS SYLLABUS FOR THE PRETEST : BEHAVIOUR OF GASES, THERMAL PHENOMENA, LIGHT, CURRENT ELECTRICITY (till Resistance)	Coulomb's law Potential difference, emf Ohm's law Resistance, resistivity, conductance, conductivity Series and parallel combination of Resistance	Short Questions from Current Electricity Numericals from Current Electricity	Numericals and Short Questions from Current Electricity
AUGUST	07	<b><u>THIRD TERM BEGINS</u></b>  CURRENT ELECTRICITY contd.	Heating effect of current Power, power ratings Electromagnetism, electromagnetic induction Electric circuits	Objectives types questions from Current Electricity	Diagrams, numerical, applications and derivations from Current Electricity Ref bk : Numerical from Current Electricity

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PRINCIPAL

Submitted on: 24/1/18

Signature of Teacher: *Nandini C* *Me* *Soumitra*

ACADEMIC CO-ORDINATOR

*Me*  
24/1/18  
St. Lawrence High School

VICE PRINCIPAL *[Signature]*



# ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

Syllabus Planner for the year 2018

TERM: SELECTION

TEACHER'S NAME: . NANDINI CHATTERJEE ,MALOSHREE NIYOGI,SOUMITRA MAITY

No. of working days:-.57.

No. of periods available: 20

Subject: PHYSICS

CLASS: X

SECTION: A,B,C, D

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	HOMEWORK	CLASS WORK
SEPTEMBER	09	ATOMIC NUCLEUS	Radioactivity Nuclear energy – fission and fusion	Short Questions from Atomic nucleus	Objective type questions from Atomic nucleus
OCTOBER	04	ATOMIC NUCLEUS  REVISION	Nuclear hazards  Revision and doubt clearing Revision and doubt clearing	Ref bk: Objectives types questions from Atomic nucleus	Ref bk : Short answer type questions from Atomic nucleus  Objective questions, SAQ, LAQ, Numericals, Applications, diagrams from other books and test papers.  Objective questions, SAQ, LAQ, Numericals, Applications, diagrams from other books and test papers
NOVEMBER	05	SELECTION TEST STARTS FROM 1 <sup>ST</sup> NOV 2018  SYLLABUS FOR THE SELECTION : WHOLE BOOK, ALL THE CHAPTERS			
DECEMBER					

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*

ACADEMIC CO-ORDINATOR

*Nandini Chatterjee*  
24/1/18  
St. Lawrence High School

*Soumitra Maity*  
VICE PRINCIPAL