ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

FOR GOD AND COUNTRY

TERM: FIRST TERM

TEACHER`S NAME: TithiDasgupta, Sanjay Bhattacharya, AparajitaMondol

Syllabus planning for the academic year 2018

Subject: Mathematics

CLASS: 10

SECTION: A, B, C, D

No. of working days: 75

No. of periods available: 50

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	HOMEWORK	CLASS WORK
JANUARY	15	• Quadratic Equation • Simple Interest • Ratio and Proportion	• Concept of quadratic equation • Problem sums • Sridhara –Acharyaa method • Calculation of principal, rate and time as givem • Ratio and proportion problem sums	In case of MCQ full sentence should be written and rough work needs to be shown .Selected sums from the chapters: • Quadratic Equation • Ratio and Proportion • Simple Interest based	Instruction regarding answering the questions to be given during the class. Selected sums from • Quadratic Equation • Ratio and Proportion • Simple Interest
FEBRUARY	16	• Ratio and proportion • Theorems related to angles in circle • cyclic quadrilateral • cuboid • Right circular cylinder • Theorems related to circles • 1stProject on survey to be given on 21/02/2017	• Proof related sums from angles in circles • Cyclic and supplementary properties of a quadrilateral • Volume ,vertices, total surface area of a cuboid • Volume and total surface area of cuboid	Selected problems from the following chapters- • Theorems related to angles in circle • cyclic quadrilateral • cuboid • Right circular cylinder • Theorems related to circles	Selected problems from the following chapters- • Theorems related to angles in circle • cyclic quadrilateral • cuboid • Right circular cylinder Theorems related to circles
MARCH	9	• construction of circumcircle and incircle • Trigonometry • Trigonometric ratios 1st Project to be submitted on 26/03/2017 (last date)	• Construction • Trigonometric sums introduction and identities Revision and doubt clearance from reference: Test Papers	Selected sums from the following chapters- • construction of circumcircle and incircle • Trigonometry • Trigonometric ratios and identities	Selected sums from the following chapters- • construction of circumcircle and incircle • Trigonometry • Trigonometric ratios and identities
APRIL	10 1stterm exam-16/04/18 to 28/04/18	• Partnership business • Compound Interest • surds	• Problem sums on partnership • Concept of compound interest • Concept of irrational number and rationalisation	Selected sums from the following chapters- • Partnership business • Compound Interest • based on MCQ, surds SAQ,LAQ	Selected sums from the following chapters • Partnership business • Compound Interest • surds based on MCQ,SAQ,LAQ

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

ACADEMIC CO- ORDINATOR

VICE PRINCIPAL

PRINCIPAL

Submitted on : 24.01.2018

Signature of Teachers : ....

ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

TERM: SECOND TERM **TEACHER`S NAME :**TithiDasgupta, Sanjay Bhattacharya, AparajitaMondol

Syllabus planning for the academic year 2018 **Subject: Mathematics** **CLASS: 10** **SECTION: A, B, C, D**

No. of working days: 73 No. of periods available: 68

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	HOMEWORK	CLASS WORK
MAY	11	• construction related to tangents Project on Nature Study to be given and discussed on 10/05/2018	• Concept related to tangent and constructions Direct and transverse tangents	Selected sums from the follwoing chapters- . construction related to tangents .theorems related to tangents based on MCQ,SAQ,LAQ	Selected sums from the follwoing chapters- . construction related to tangents . theorems related to tangents based on MCQ,SAQ,LAQ
JUNE	20	2nd project to be submitted on 12/06/2018 (last date) • Trigonometric ratios of complementary angles • theorems related to tangents	• Simple sums on complementary angles	Selected sums from the following chapters- .Trigonometric ratios of complementary angles .Right circular cone based on MCQ,SAQ,LAQ	Selected sums from the following chapters- .Trigonometric ratios of complementary angles .Right circular cone based on MCQ,SAQ,LAQ
JULY	17 Pretest- 25/07/2018 to 09/08/2018	• solid objects • Right circular cone	• Real life problems on solid objects • Finding volume and surface area of a cone • Pretest syllabus (1st term and pretest)	Selected sums from the chapter .solid objects and revision from Test Papers based on MCQ,SAQ,LAQ	Selected sums from the chapter . solid objects and revision from reference books based on MCQ,SAQ,LAQ
AUGUST	20	• variation • similarity	• Simple , inverse and compound variation • Similarity and problems Proof not necesaary	Selected sums from the following chapters- . variation . similarity based on MCQ,SAQ,LAQ	Selected sums from the following chapters- . variation . similarity based on MCQ,SAQ,LAQ

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St. Lawrence High School

Submitted on : 24.01.2018

Signature of Teachers : Tithi Das Gupta Sanjay Bhattacharya, Aparajita Mondal

ST. LAWRENCE HIGH SCHOOL

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TERM: SELECTION

TEACHER`S NAME: :TithiDasgupta, Sanjay Bhattacharya, AparajitaMondol

Syllabus planning for the academic year 2018   **Subject: Mathematics**   **CLASS: 10**   **SECTION: A, B, C, D**

No. of working days: 35   No. of periods available:27

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	HOMEWORK	CLASS WORK
SEPTEMBER	15	• Pythagorus theorem • Sphere • construction : Mean proportion • Project on Creativity to be given and discussed on 11/09/2018	• Determination of mean proportion • Construction of a square having surface area of sphere • Pythagorus theorem proof and its Sphere • construction converse • Volume and equal area to a rectangle to the triangle	Selected sums from the following • chapters-Pythagorus theorem Mean proportion based on MCQ,SAQ,LAQ	Selected sums from the following chapters- Pythagorus theorem Sphere construction : Mean proportion based on MCQ,SAQ,LAQ
OCTOBER	12	• Height and distance • Statistics • Project submission on 12/10/2018(last date)	• Problems sums on Trigonometry Height and distances Mean ,Median Mode and Ogive	Selected sums from the following chapters- .Height and distance . Statistics based on MCQ,SAQ,LAQ	Selected sums from the following chapters- . Height and distance . Statistics based on MCQ,SAQ,LAQ
NOVEMBER	1st November Selection test begins				

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