



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

Syllabus planning for the Academic Year 2020



SUBJECT: MATHEMATICS
NO.OF WORKING DAYS:- 88

TERM: FIRST
NO. OF PERIODS AVAILABLE: 50

TEACHERS' NAMES : DEBJANI DAS, CHAITALI ROY AND APARAJITA MONDAL
CLASS : 10 SECTION: A, B, C & D.

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	HOMEWORK	CLASS WORK
JANUARY	18	1.Quadratic equation in one variable 2.Simple interest 6. Compound interest and uniform rate of increase or decrease 3.Theorems Related to circle 4. Cuboid	1. Concept, solving quadratic equatin, Sridhara Acharyya formula, nature of roots,solution of real life problems 2.Concept, formula, solution of real life problems 6. Concept, formula, solution of real life problems 3.Theorem 32, 33 and its application 4.concept, formula of total surface area, volume,length of a diagonal	In case of MCQ full sentence should be written and necessary rough work should be done. Selected sums from the exercise of Quadratic equation in one variable, Simple interest, Compound interest and uniform rate of increase or decrease, Theorems Related to circle, Cuboid	Selected sums from the exercise of Quadratic equation in one variable, Simple interest, Compound interest and uniform rate of increase or decrease, Theorems Related to circle, Cuboid
FEBRUARY	12	7. Theorems related to Angles in a circle 8. Right circular cylinder 20. trigonometry: concept of measuerement of angle	7.proof of the theorem and related problems 8. Concept, formula of total surface area, volume, real life problems 20.Sexgesimal and circular measure	In case of MCQ full sentence should be written and necessary rough work should be done. Selected sums from the exercise of Theorems related to Angles in a circle, Right circular cylinder ,trigonometry: concept of measuerement of angle	Selected sums from the exercise of Theorems related to Angles in a circle, Right circular cylinder ,trigonometry: concept of measuerement of angle
MARCH	15	23.Trigonometric ratios and trigonometric identities 24. Trigonometric ratios of complementary angles. <u>First project submission date 03.3.2020</u> <u>Project on Survey Method (quadratic equation)</u>	23.Values of trigonometric ratios of some standard angles and related problems 24.concept and related problems	In case of MCQ full sentence should be written and necessary rough work should be done. Selected sums from the exercise of Trigonometric ratios and trigonometric identities,Trigonometric ratios of complementary angles.	Selected sums from the exercise of Trigonometric ratios and trigonometric identities,Trigonometric ratios of complementary angles
APRIL	5 1 st term exam 15 th april to 27 th april	Continuation of chapter 24 Trigonometric ratios of complementary angles. <u>Syllabus for 1st term: chapter no. 1,2,3,4,6,7,8,20,23,24</u>	concept and related problems	Selected sums from the exercise of Trigonometric ratios of complementary angles.	Selected sums from the exercise of Trigonometric ratios of complementary angles

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: 27.01.2020

Signature of Teachers: *Debjani Das, Chaitali Roy, Aparajita Mondal*

Academic Co-ordinator:

[Signature]

PRINCIPAL

VICE PRINCIPAL

[Signature]



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SUBJECT: MATHEMATICS
NO. OF WORKING DAYS:- 49

TERM: PRE-TEST
NO. OF PERIODS AVAILABLE: 49

TEACHERS' NAMES : DEBJANI DAS, CHAITALI ROY AND APARAJITA MONDAL
CLASS : 10 SECTION: A, B, C & D.

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	HOMEWORK	CLASS WORK
MAY	12	Second term begins on 29 th April 5.Ratio and proportion 9. Quadratic surd 10.theorems related to cyclic quadrilateral	5.Concept of different types, application of different proportional properties. 9.Concept,types, rationalising factor,different real life problems of quadratic surd. 10.theorem and its application	In case of MCQ full sentence should be written and necessary rough work should be done. Selected sums from the exercise of Ratio and proportion , Quadratic surd,Theorems related to cyclic quadrilateral	Selected sums from the exercise of Ratio and proportion , Quadratic surd,Theorems related to cyclic quadrilateral
JUNE	14	12. Sphere 13. Variation 14. Partnership business <u>Second Project submission date:16/6/2020</u> <u>Project on Nature study (Right Circular Cylinder)</u>	12.concept, curved surface area of sphere and hemisphere, solution of different real life problems 13.simple,inverse and compound variation 14.simple and mixed partnership and related problems	In case of MCQ full sentence should be written and necessary rough work should be done. Selected sums from the exercise of Sphere, Variation,partnership business	Selected sums from the exercise of Sphere, Variation,partnership business
JULY	23	15. theorems related to tangent to a circle 16. Right circular cone 19.Solid objects 25.Heights and distances 11.Construction of circumcircle and incircle.	15.Theorem and its application 16.curved and plane surface area , volume of a right circular cone 19.Problems related to different solid objects 25.Concept of angle of elevation and angle of depression 11.Construction of circumcircle and incircle of a given triangle.	In case of MCQ full sentence should be written and necessary rough work should be done. Selected sums from the exercise of . theorems related to tangent to a circle, Right circular cone ,Solid objects,Heights and distances, Construction of circumcircle and incircle.	Selected sums from the exercise of . theorems related to tangent to a circle, Right circular cone ,Solid objects,Heights and distances, Construction of circumcircle and incircle
AUGUST	10 Pre-test begins on 03/08/2020 till 17/08/2020	<u>Syllabus for pre-test :Chapter no.- 5,9,10,11,12,13,14,15,16,19,25.</u> Third term begins on 19/08/2020 17.Construction of tangent to a circle 18.similarity	17.Construction of tangent of a circle to a point on the circle 18.concept of similar geometric figures, related problems.	In case of MCQ full sentence should be written and necessary rough work should be done. Selected sums from the exercise of Construction of tangent of a circle to a point on the circle, concept of similar geometric figures, related problems.	Selected sums from the exercise of Construction of tangent of a circle to a point on the circle, concept of similar geometric figures, related problems.

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SUBJECT: MATHEMATICS
NO. OF WORKING DAYS:- 59

TERM: SELECTION
NO. OF PERIODS AVAILABLE: 48

TEACHERS' NAMES : DEBJANI DAS, CHAITALI ROY AND APARAJITA MONDAL
CLASS : 10 SECTION: A, B, C & D.

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	HOMEWORK	CLASS WORK
SEPTEMBER	24	21. Construction : determination of mean proportional 22. Pythagoras theorem 26. Statistics: Mean, Median, Ogive, Mode <u>Third Project submission date 16/09/2020</u> <u>Project to be done on Creativity (Pythagoras theorem)</u>	21. Construction of mean proportional of two line segments in geometric method 22. Proof of the theorem and related problems 26. Concept of mean, different method, determination of median, ogive, median from ogive	In case of MCQ full sentence should be written and necessary rough work should be done. Selected sums from the exercise of Construction : determination of mean proportional, Pythagoras theorem, Statistics: Mean, Median, Ogive, Mode	Selected sums from the exercise of Construction : determination of mean proportional, Pythagoras theorem, Statistics: Mean, Median, Ogive, Mode
OCTOBER	14	Continuation of 26. Statistics Syllabus is completed. Revision of whole book	26. Concept of mean, different method, determination of median, ogive, median from ogive Doubt clearing sessions	Questions to be discussed from Test Paper	Questions to be given for homework from Test Paper
NOVEMBER	Selection Test 3rd November to 12th November	<u>Syllabus for test: The entire book.</u>			
DECEMBER					

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