

DELHI PUBLIC SCHOOL, JAMMU
SYLLABUS BIFURATION
SESSION- (2023-24)

CLASS-XI

SUBJECT: APPLIED MATHEMATICS (241)

App. Maths is a branch of Mathematics that concerns itself with mathematical methods that are typically used in science, engineering, business and industry.

Applied Mathematics also describes the professional specialty in which mathematicians work on practical problems.

Objectives of theory :

- *Promote understanding of basic facts and concept in App. Maths while retaining the excitement of Mathematics.*
- *Develop problem solving skills in student*
- Acquaint student with different aspect of app. maths used in daily life.
- Develop an interest in the student to study App. Math as a discipline.

Objectives of activity:

- Developing mathematical thinking is about developing habit of mind: defining, systematizing, abstracting , making connection, developing new ways to describe situations and make predictions, creating, inventing, and experimenting.

S.No.	Month	Topic/Chapter
1.	April	Unit-1(a): Numbers, Quantification and Numerical Applications Foundation worksheet on NUMBERS Activity by using prime no. and div. rule
2.	May	Unit-1(b): Numerical Applications Revision sheet (Numerical Applications) and Sample paper-1 Assignment-1 for revision of topics: (a) Time and distance, (b) work. Class test-1 on Numbers, Quantification
3.	June	Unit-2(a): Algebra Assignment-2 for revision of topics (a) sequence (b) Permutation and combination. Activity Fibonacci sequence: history and presence in nature



4.	July	Unit-2(b): Algebra (Mensuration) Assignment-3 for revision of topics (a) Sitting arrangement (b) Vol. and SA 2D &3D fig. Kahoot quiz on sets.
5.	August	Unit-4: Calculus Assignment-4 for revision of topics (a) Limit (b) continuity. Team exercise on function and its type
6.	September	Unit-5: Probability Revision sheet (Probability) and Sample paper-2 Class test-2 on (a) Calculus (b) Algebra and Prob.
7.	October	Unit-3(a): Unit-3: Mathematical Reasoning Assignment-5 for revision of topics reasoning Activity testing the validity of mathematical statement and framing truth table
8.	November	Unit-6: Descriptive statistics Assignment-6 for revision of topics (a) Mean, Mode (b) Measure of central tendency PPT on perpetuity, sinking fund, Bonds
9.	December	Unit-7: Financial Maths Assignment-7 for revision of topics CI &SI Revision sheet (sinking fund, Bonds) and Sample paper-3 PPT on perpetuity, sinking fund, Bonds
10.	January	Unit-8: Co-ordinate Geometry Activity on population migration data Assignment-8 for revision of topics Straight line
11.	February	1. Chapter-wise revision and practice of sample papers. Class test-3 on chapters (a) Financial Maths (b) Descriptive statistics (c) Co-ordinate Geometry
12	March	1. Chapter-wise revision and practice of sample paper 2. Revision



Syllabus of Formative Assessment-1

Unit-1: Numbers, Quantification

Unit-2: Algebra

SYLLABUS (HALF YEARLY EXAMINATION)

Unit-1: Numbers, Quantification

Unit-2: Algebra

Unit-3: Mathematical Reasoning

Unit-4: CALCULUS

Unit-5:Probability

Syllabus of Formative Assessment-2

Unit-6: Descriptive statistics

Unit-7: Financial Maths

SYLLABUS (FINAL EXAMINATION)

Unit-1: Numbers, Quantification

Unit-2: Algebra

Unit-3: Mathematical Reasoning

Unit-4: CALCULUS

Unit-5:Probability

Unit-6: Descriptive statistics

Unit-7: Financial Maths

Unit-8: Co-ordinate Geometry

Subject Coordinator





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