CLASS-XI   **SUBJECT: APPLIED MATHEMATICS (241)**

Applied Mathematics 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. Mathematics while retaining the excitement of Mathematics.*
- *Develop problem solving skills in student*
- Acquaint student with different aspect of Applied Mathematics 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-1** by using prime no. and div. rule
2.	May	**Unit-1(b):** Numerical Applications **Revision sheet (**Numerical Applications**) and Sample paper-1** on Numbers, Quantification **Assignment-1** for revision of topics**:** (a)Time and distance, (b)work**.** **KAHOOT quiz on Numbers** **Class test-1** on Numbers, Quantification
3.	June	**Unit-2(a):** Algebra **Class test-1** on Numbers, Quantification **Activity** Fibonacci sequence: history and presence in nature
4.	July	**Unit-2(b):** Algebra (Mensuration) **Assignment-2** for revision of topics (a) Sitting arrangement (b) Vol. and SA 2D &3D fig. **Kahoot quiz** on sets**.**

5.	August	**Unit-4: Calculus**
		Assignment-3 for revision of topics (a) Limit (b) continuity. **Sample paper-2** on **Unit-1:** Numbers, Quantification **Unit-2:** Algebra **Unit-3:** Mathematical Reasoning **Unit-4:** CALCULUS **Unit-5:** Probability

6.	September	**Unit-5:** Probability
		   Assignment-4 (Probability
		   Activity testing the validity of mathematical
		    statement and framing truth table

7.	October	. **Unit-6: Descriptive statistics**
		    Assignment-5 for revision of topics
		    (a) Mean, Mode
		    (b) Measure of central tendency
		
		  CT-3 : **Descriptive statistics** and Reasoning

8.	November	**Unit-3(a): Unit-3: Mathematical Reasoning**
		Assignment-6 for revision of topics reasoning
		    Activity testing the validity of mathematical
		    statement and framing truth table
		PPT on perpetuity, sinking fund,Bonds

9.	December	**Unit-7:** Financial Maths
		   Unit-8: Co-ordinate Geometry
		    Assignment-7 for revision of topics CI &SI
		    Revision sheet (sinking fund,Bonds) and
		   Sample paper-3
		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
		
		  PPT on perpetuity, sinking fund,Bonds

10.	January	**Case study questions** **Assignment-8** for revision of topics Straight line
11.	February	**1.** Chapter-wise revision and practice of sample paper

12	**March**	**1.** Chapter-wise revision and practice of sample paper
		2. Revision

Syllabus of Cycle Test-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 Cycle Test-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

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