

ROADMAP TEMPLATE FOR CLASS IX

1. **SUBJECT:** MATHEMATICS

2. **OBJECTIVES:** TEACHING MATHEMATICS AT SECONDARY LEVEL ARE TO HELP THE LEARNER TO:

- Consolidate the Mathematical knowledge and skills acquired at the middle stage.
- To develop positive ability to think, analyze and articulate logically.
- To acquaint students with different aspects of mathematics in daily life.
- To develop necessary skills to work with modern technological devices and mathematical software.
- Appreciate the role, value and use of Mathematics in society and develop willingness to work collaboratively.
- Apply mathematical knowledge and skills to familiar and unfamiliar situations
- Acquire knowledge and skills for further education and training
- Communicate mathematical ideas related to SDGs.

3. **MONTH WISE DIVISION OF SYLLABUS:**

Lesson Number	Name of the lesson	Month
1 3	NUMBER SYSTEM COORDINATE GEOMETRY	April
12	HERON'S FORMULA	May
6 2	LINES AND ANGLES POLYNOMIALS	July
7 4 13	TRIANGLES LINEAR EQUATIONS IN TWO VARIABLES SURFACE AREA AND VOLUMES	August
8 10	QUADRILATERAL CIRCLE	October
5 14	INTRODUCTION TO EUCLID'S GEOMETRY STATISTICS	November
10	CIRCLE (CONTD)	December

4.Scheme of assessment & weightage:

Sr. No.	Assessment cycle	Month of Assessment	Mode of Assessment	Weightage
1	PT1	May	Pen paper Test	40
2	PT2	July/August	Pen paper Test	40
3	Half YEARLY	September	Pen paper Test	80
4	PT3	October/November	Pen paper Test	40
5	PT4 (PAT)	December/January	Pen paper Test	80
6	Final	February/March	Pen paper Test	80

SYLLABUS FOR PERIDIC TEST 1 (40 Marks)

Chapter 1	NUMBER SYSTEM
Chapter 3	COORDINATE GEOMETRY
Chapter 12	HERON'S FORMULA

SYLLABUS FOR PERIDIC TEST 2 (40 Marks)

Chapter 6	LINES AND ANGLES
Chapter 2	POLYNOMIAL
Chapter 7	TRIANGLES

SYLLABUS HALF YEARLY EXAM (80 Marks)

Chapter 1	NUMBER SYSTEM
Chapter 3	COORDINATE GEOMETRY
Chapter 12	HERON'S FORMULA
Chapter 6	LINES AND ANGLES
Chapter 2	POLYNOMIAL
Chapter 7	TRIANGLES
Chapter 4	LINEAR EQUATIONS IN TWO VARIABLES
Chapter 13	SURFACE AREA AND VOLUMES

SYLLABUS FOR PERIDIC TEST 3 (40 Marks)

Chapter 8	QUADRILATERAL
Chapter 10	CIRCLE

SYLLABUS FOR PERIDIC TEST 4 (PAT) (80 Marks)

COMPLETE SYLLABUS

Note: Paper pen tests will consist of VSA, SA, LA, Case Based, LOTs, HOTs questions of 1,2 3 ,4& 5 marks weightage

5. Internal Assessment Break-up:

Sr. No.	Type of Assessment	Mode of Assessment	Weightage
1	Periodic Test	Pen paper Test	5
2	Multiple Assessment	Assessment through different modes to assess various competencies	5
3	Enrichment Activity	Assessment through different activities	5
4	Portfolio	Journals/Notebook/Assignments/Worksheets/Trans-Disciplinary Project	5

6. CRAB Worksheets per chapter will be assigned.

7. Prescribed books: **MATHEMATICS TEXTBOOK FOR CLASS 9 (N.C.E.R.T)**

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