

**DELHI PUBLIC SCHOOL, JAMMU**  
**SESSION: 2021-2022**

**SUBJECT: MATHEMATICS**

**CLASS: IX**

**OBJECTIVES:**

1. To acquire knowledge and understanding, particularly by way of motivation and visualization, of basic concepts, terms, principles and symbols and underlying processes and skills;
2. To develop mastery of basic algebraic skills;
3. To develop an interest in students to study Mathematics as a discipline
4. feel the flow of reason while proving a result or solving a problem;
5. To develop awareness of the need for national integration, protection of environment, observance of small family norms, removal of social barriers, elimination of gender biases;
6. To develop reverence and respect towards great Mathematicians for their contributions to the field of Mathematics;
7. To develop interest in the subject by participating in related competitions;
8. To develop ability to think, analyze and articulate logically.

S.NO	MONTH	NAME OF THE LESSON/CHAPTER
1.	APRIL	1. NUMBER SYSTEMS 2. POLYNOMIALS
2.	MAY	3. LINEAR EQUATIONS IN TWO VARIABLES. 4. LINES AND ANGLES
3.	JULY	5. COORDINATE GEOMETRY
4.	AUGUST	6. TRIANGLES
5.	SEPTEMBER	7. STATISTICS 8. HERON'S FORMULA 9. PROBABILITY
6.	OCTOBER	10. CIRCLES 11. CONSTRUCTIONS
7.	NOVEMBER	12. QUADRILATERALS
8.	DECEMBER	13. SURFACE AREAS AND VOLUMES
9.	JANUARY	14. AREAS OF PARALLELOGRAMS AND TRIANGLES
10.	FEBRUARY	REVISION

### **FORMATIVE ASSESSMENT-1**

1. NUMBER SYSTEM
2. POLYNOMIALS

### **HALF YEARLY:**

1. NUMBER SYSTEMS
2. POLYNOMIALS
3. LINEAR EQUATIONS IN TWO VARIABLES.
4. LINES AND ANGLES
5. COORDINATE GEOMETRY
6. TRIANGLES
7. STATISTICS
8. HERON'S FORMULA
9. PROBABILITY

### **FORMATIVE ASSESSMENT-2**

1. NUMBER SYSTEMS
2. POLYNOMIALS
3. LINEAR EQUATIONS IN TWO VARIABLES.
4. LINES AND ANGLES
5. COORDINATE GEOMETRY
6. TRIANGLES
7. STATISTICS
8. HERON'S FORMULA
9. PROBABILITY
10. CIRCLES
11. CONSTRUCTIONS
12. QUADRILATERALS

### **FINAL EXAMINATION:**

1. NUMBER SYSTEMS
2. POLYNOMIALS
3. LINEAR EQUATIONS IN TWO VARIABLES.
4. LINES AND ANGLES
5. COORDINATE GEOMETRY
6. TRIANGLES
7. STATISTICS
8. HERONS FORMULA
9. PROBABILITY
10. CIRCLES
11. CONSTRUCTIONS
12. QUADRILATERALS
13. SURFACE AREAS AND VOLUMES
14. AREAS OF PARALLELOGRAMS AND TRIANGLES.

**ENRICHMENT ACTIVITY:**

**TERM 1:**

1. To construct a square root spiral.
2. To find a hidden picture by plotting and joining the various points with given coordinates in a plane.

**TERM 2:**

1. To form a cone from a sector of a circle and to find the formula for its curved surface area.
2. To draw histograms for classes of equal widths and varying widths.

