Annual Syllabus Break-up for the session 2023-2024

Subject: - MATHEMATICS   Class: - IX

Sl.	Month	No. of Instructional days	No. of periods	Chapters to be taught	Subject enrichment activities	Values to be imparted	Extra content to be taught
1	**April**	21	28	1.Number System	.* Spiral of square roots. *Representation of irrational numbers on number line.	* Numerical, constructive and mathematical skill to use in real life situation can be improved.	Extra questions from reference book. (R. S. Aggrawal)
2	**June**	11	14	2. Polynomial	*Factorisation with the help of papers and graph paper.	* It will help to differentiate algebraic expressions and polynomials also factor and remainder theorems.	Extra questions from reference book.
3	**July**	23	30	3. Coordinate Geometry	*Plotting the points on graph paper and its mirror image along x-axis and along y-axis.	*It develop drawing and higher order thinking skills by construction of plane 2D figures.	Extra questions from reference book.
				4.Linear Equations in two variables	*Representation of linear equation on graph paper.	*Students will be able to find the points on the number line and able to draw its graph.	Extra questions from reference book.
				5.Introduction of Euclid's geometry	*We will set up a game of charades with students to guess the postulate as a group acts.	*They will able to understand the term geometry and its origin and also they know about the contribution of Euclid in mathematics.	Extra questions from reference books.

4	August	23	30	6. Lines and Angles	*Representation on Geogebra.	*Students will be able to understand the different types of angles with their diagrams, different types of lines, concept of parallel lines and properties of triangles with proof.	Extra questions from reference book.
				7.Triangles	*By cutting different triangles of different shapes on different coloured papers to prove congruency.	*It will help to proof of important theorems, congruence conditions also help their geometrical knowledge.	Extra questions from reference book.
5	September			**Revision & Term-1 Half-Yearly Exams**			
6	October	20	27	8.Quadrilaterals	*To show that the quadrilateral formed by joining the mid-points of the adjacent sides of a quadrilateral is a parallelogram by paper folding.	*This will help that the quadrilateral formed by joining the mid-points of adjacent sides of a quadrilateral will be a parallelogram also different theorems in the problems and able to draw different types of quadrelaterals.	Extra questions from reference book.

7	**November**	13	17	9.Circles	*Proof of theorems by coloured papers and cardboard.	*It will help to understand the definition of centre, radius, sectors etc. also able to understand the theorems of circles, cyclic quadrilaterals and their applications related to real life.	Extra questions from reference book.
8	**December**	19	25	10. Heron's Formula	*To calculate the area of the triangle with the help of popsicle sticks.	*It will help to use formula for finding area of triangles when altitudes are not given.	Extra questions from reference book.
9	**January**	22	29	11. Surface Area & Volumes	*Using paper to draw solid shapes.	*To understand the surface area and volume of all shapes and how they can solve real life problems.	Extra questions from reference book.
				12.Statistics	*To draw Histogram, Bar-Graph on graph paper.	*Students will be able to put different geometrical methods of representing the data by histogram and bar graph also concept of central tendency.	Extra questions from reference book.
10	**February & March**	**Revision & Term-2 Annual Exams**					

Syllabus For Examination

S.N	EXAMINATION	EXAMINATION'S MONTH	SYLLABUS FOR EXAMINATION
1.	**TEST-1**	**July**	Ch- 1, 2
2.	**Half Yearly Examination**	**September**	Ch- 1, 2, 3, 4, 5, 6, 7
3.	**TEST-2**	**November**	Ch- 8, 9
4.	**Annual Examination**	**February**	Ch- 1 to 12