

BAGARIA BAL VIDYA NIKETAN
LACHHMANGARH-SIKAR
SYLLABUS & LESSON PLANNER 2022-23

CLASS	IX
SUBJECT	Mathematics
TEACHER'S NAME	Praveen Saini

SYLLABUS

CH. NO.	NAME OF CHAPTER	WORKING DAYS	PERIOD	TOPIC	MONTH	WEEK
Unit No: II	Algebra:- Polynomials, Linear Equations in two variables	21	27	Coefficients of a polynomial, terms of a polynomial and zero polynomial. Degree of a polynomial. Constant, linear, quadratic and cubic polynomials. Monomials, binomials, trinomials.	April	1
				Factors and multiples. Zeros of a polynomial. Motivate and State the Remainder Theorem with examples. Statement and proof of the Factor Theorem. Factorization of $ax^2 + bx + c$, $a \neq 0$ where a, b and c are real numbers, and of cubic polynomials using the Factor Theorem.		2
				Introduction to the equation in two variables. Focus on linear equations of the type $ax + by + c = 0$		3
Unit : V	Mensuration: Areas Surface areas & volumes	17	27	Area of a triangle using Heron's formula (without proof)	May	1
						2
Unit : V	Mensuration: Area volumes	9	9	Surface areas and volumes of spheres (including hemispheres) and right circular cones	June	1
Revision for the Test consisting the syllabus completed till now					July	1
						2
Unit : III	Coordinate Geometry			The Cartesian plane, coordinates of a point, names and terms associated with the coordinate plane, notations.		1 & 2

& VI	& Statistics and Probability	23	36	Bar graphs, histograms (with varying base lengths), and frequency polygons.	August	3 & 4
Unit: IV	Geometry: Intro. Of Euclid's geometry, Lines and Angles, Triangles,	25	36	(Motivate) If a ray stands on a line, then the sum of the two adjacent angles so formed is 1800 and the converse.	September	1
				(Motivate) Two triangles are congruent if any two sides and the included angle of one triangle is equal to any two sides and the included angle of the other triangle (SAS Congruence).		2
				(Motivate) The sides opposite to equal angles of a triangle are equal		3
Syllabus break due to holidays and exam period in the month of October.						
Unit: IV	Geometry: Quadrilateral, Circles	25	36	(Prove) The diagonal divides a parallelogram into two congruent triangles.	Novemebr	1
				(Motivate) A quadrilateral is a parallelogram if a pair of its opposite sides is parallel and equal.		2
				(Prove) Equal chords of a circle subtend equal angles at the center and (motivate) its converse.		3
				(Prove) The angle subtended by an arc at the center is double the angle subtended by it at any point on the remaining part of the circle.		4
Unit: IV	Geometry: Quadrilateral, Circles	21	27	(Motivate) If a line segment joining two points subtends equal angle at two other points lying on the same side of the line containing the segment, the four points lie on a circle	December	1 2 3
unit: I	Real Numbers	24	18	Review of representation of natural numbers, integers, and rational numbers on the number line. Rational numbers as recurring/ terminating decimals. Operations on real numbers	January	1
				Recall of laws of exponents with integral powers. Rational exponents with positive real bases (to be done by particular cases, allowing learner to arrive at the general laws.)		2
	Revision				February	1
	Revision				March	