NEW ERA SENIOR SECONDARY SCHOOL
MATHS SYLLABUS 2024-25
CLASS – 1X

MONTH & DAYS	CHAPTER
APRIL 21 + MAY 4	**Ch 1 Number Systems** • Review & representation on number line • Decimal expansion of Real numbers • Review and applications of law of exponents • Rationalization of denominator of the form1/(a + b√ x) & 1/(√x +√y) **Ch2 Polynomials** • Definition, coefficients, degree, Constant, roots, types • Zeroes of polynomials
JUNE 17	**Ch2 Polynomials (Continued..)** • Factor theorem & Remainder theorem • Factorization of polynomials by splitting the middle term • Factorization of polynomials by factor and remainder theorem • Factorization using the identities **Ch 6 Lines and Angles** • Review of properties of lines, angles & triangles • Properties with proof • Proofs of theorems 6.1 and 6.7
JULY 24	**Ch- 6 continued** **Ch 5 Euclid's Geometry (Briefing for Project)** • History of Euclid's geometry • Axioms & postulates • Theorem 5.1 **Ch 3 Co-ordinate geometry** • Introduction of Cartesian plane • Plotting of points on Cartesian plane and identifying the coordinates of a point
AUGUST 25	**Ch 10 Heron's formula)** • Area of a triangle using Heron's formula **Ch 7 Triangles** • Review. of congruence of two triangles & it's different Criteria's (SSS, SAS, ASA, AAS & RHS) • Proofs of theorems 7.1 and 7.2.

SEPTEMBR 22	**<u>Ch 7 continued…</u>** **<u>Ch 8 Quadrilaterals</u>** • Properties of parallelograms • Theorem on diagonals of parallelograms • Conditions of quadrilateral to be a parallelogram • Midpoint theorem • Proof of theorem 8.1.
OCTOBER **19** **+** **NOVEMBER** **12**	**<u>Ch 4 Linear equation in two variables</u>** • Review of L.E. in one variable • Intro. of L.E. in two variables • Real life problems & their algebraic solutions **<u>Ch 11 Surface areas & Volumes</u>** • Surface area & Volume of cone, spheres and hemisphere • Understanding the derivation of formulae and their application.
DECEMBER **23**	**<u>Ch 11 continued…</u>** **<u>Ch 10 Circles</u>** • Introduction • Perpendicular from the centre to the chord • Equal chords • Angle subtended by equal chords at the centre • Angle subtended by arcs on the remaining parts of the circle • Cyclic quadrilaterals • Proofs of theorems 10.1 and 10.8
JANUARY **24**	**<u>Ch 10 continued….</u>** **<u>Ch 12 Statistics</u>** • Introduction of Statistics • Collection & presentation of data as bar graph, histogram & frequency polygon
FEBRUARY **21**	**Revision and Annual Exam**