NEW ERA SENIOR SECONDARY SCHOOL, NIZAMPURA
MATHS SYLLABUS 2026-2027
CLASS –VII

MONTH (No. of days)	TOPICS
APRIL 23 + MAY 2 (25)	**Ch -1 LARGE NUMBER AROUND US** • Nos. from 10,000 to Crore • Reading writing numbers in (International & Indian System) • Place value, expanded forms, short forms (both systems) and comparison of numbers • International & Indian System of nos. • Expanded form & Standard form • Formation of number • Rounding off the numbers to nearest thousand, 1lakh, ten lakh, crore etc. • Estimation of the sum, difference, product and • Addition and subtraction of numbers • Word problems on addition and subtraction, multiplication, division of numbers **CH -2 ARITHMETIC EXPRESSIONS** • Introduction to arithmetic expression • Comparing expression • Evaluation of arithmetic expressions • Terms in expressions • Commutative property in expressions • Use of brackets in the expressions
JUNE (19)	**CH – 8 WORKING WITH FRACTIONS** • Fraction as a part whole (Eg: km, a day etc.) • Simplest form of a fraction • Operations of fractions (all four fundamental operations) • Word problems **CH – 3 A PEEK BEYOND THE POINT** • Fractions as decimal number • Decimal place value • Use of decimal number (conversions) • Types of decimals : like, unlike and equivalent decimals • Comparison decimal numbers. • Addition, Subtraction ,Multiplication and division of decimal numbers • World problems
JULY (26)	**CH -5 PARALLEL AND INTERSECTING LINES** • Parallel and intersecting lines • Perpendicular lines • Pairs of angles (adjacent, linear, supplementary, complementary and vertically opposite angles) • Angles and their property formed by parallel lines and a transversal. (Alternate, corresponding, interior and exterior angles) **CH - 7A TALE OF INTERSECTING LINES** • Triangle and its construction using compass • Types of triangles • Median and altitude of triangle • Triangle and its properties(Triangle inequality, angle sum, exterior angle**)**

AUGUST (23)	**CH – 4 EXPRESSIONS USING LETTER NUMBERS** • Generation of Alg Exp's • Terms, variable, constants, co-efficient, like and unlike terms. • Finding the value of an expression • Operations (addition and subtraction) of Alg Exp's • Simplification of Alg. Exp.
SEPTEMBER (23)	**CH -6 NUMBER PLAY** • Even and Odd numbers (their sum , difference and general rule) • Parity of numbers • Magic squares (3x3, 4x4) • Virahanka number – Fibonacci sequence **CH – 2 OPERATION WITH INTEGERS (Book – 2)** • Operations on integers (Addition, subtraction, Multiplication and Division**)**
OCT (23) + NOV (11)	**CH- 7 FINDING THE UNKNOWN (Book – 2)** • Algebraic equation • Forming a linear equation in one variable • Solving and verifying of equations • Word problems **CH – 4 ANOTHER PEEK BEYOND THE POINT (Book – 2)** • Decimal multiplication • Decimal division • Word problems involving multiplication and division
DEC (23)	**CH- 1 GEOMETRIC TWIN (Book – 2)** • Introductions to Congruent triangles • Condition for congruency (SSS, SAS, AAS, AAA , SSA, ASA, RHS) • Study of two angles and a non-included side in a triangle • Angles of Equilateral and Isosceles triangles **CH-3 FINDING COMMON GROUND(Book – 2)** • Factors and multiples • Prime factorization of numbers • HCF and LCM of numbers • Word problems including HCF and LCM
JAN (22)	**CH 6 CONTRUCTIONS AND TILINGS (Book – 2)** • Meaning of bisection • Introduction to perpendicular bisector • Construction of Perpendicular bisector by compass and Sulba-Sutra method • Construction of an angle bisector using compass • Construction of designs and repeating units • Construction of a copy of an angle • Construction of a line parallel to the given lines • Construction of Archs, regular hexagons, equilateral triangles • Construction of angle of given measure • Tiling
FEB (23)	**CH -5 CONNECTING THE DOTS(Book – 2)** • Introduction, Organization of data • Arithmetic mean, Range, Mode, Median • Bar graphs