KENDRIYA VIDYALAYA SANGATHAN BHOPAL REGION
SESSION -2025-2026
CLASS-VIII SUBJECT-MATHEMATICS

S.No.	MONTH	NUMBER OF PERIODS REQUIRED	NAME OF THE CHAPTER	TLO	SUGGESTED ACTIVITIES
1	April and May	23	Bridge Course		
2	June	8	Bridge Course		
3	JULY	25	Bridge Course **Chapter.**1 A Square and A Cube	• Recognize properties of squares and cubes. • Compute square and cube roots, including estimation techniques. • Identify and use patterns in square and cube sequences.	• **Unit Digit Exploration** Questions invite students to determine which squares of given numbers (e.g., 34^2, 46^2, 56^2, 74^2) have the digit **6 in the units place**, promoting number sense and pattern recognition • **Historical Puzzles & Stories** The chapter integrates interesting puzzles like the "**locker problem**" and references the **taxicab number (1729)** to engage students in the history and curiosity of numbers • **Pattern Observation Activity** Students are asked to **find the squares of the first 30 natural numbers**, fill out the table, then **identify patterns**—for example, the sum of consecutive odd numbers equals a perfect square.
4	AUGUST	23	**Chapter.**2 Power Play	• Understand and apply laws of exponents, including negative exponents. • Express large/small numbers using scientific notation. • Simplify expressions using exponent rules.	• **Magical Pond Exponential Growth Problem** A storytelling-based exponential activity • **Exponential Form Practice** Students express the number of lotuses on full and half-covered

					days in **exponential notation** • Experiencing the power play • paper folding activity • Combined Growth Scenario
5	SEPTEMBER	24	**Chapter.**3 A Story of Numbers REVISION FOR HALF YEARLY EXAMINATION	• Classify numbers: natural, whole, integers, rational. • Apply properties of rational numbers (closure, commutativity, etc.). • Represent rational numbers on a number line and find numbers between two given rationales	• **Stick Number System Experiment** Students imagine (or use actual sticks) a primitive number system, akin to tally marks. They perform **addition, subtraction, multiplication, and division** using only these stick representations—without referring to modern digits or number namesplace value system
HALF YEARLY EXAMINATION					
6	OCTOBER	20	**Chapter.**4 Quadrilaterals	• Identify various quadrilaterals and their properties. • Explore angles, sides, symmetry, and special parallelograms. • Construct quadrilateral types based on given attributes.	• **Constructing by Diagonals** Draw a quadrilateral whose **diagonals are equal in length (8 cm)**, **bisect each other**, and intersect at a given angle—options include **30°, 40°, 90°, 140°** • **Angle Identification via Folding or Reasoning** Use a paper rectangle (or theoretically reason) to establish that a square's diagonals meet at right angles and bisect angles into equal parts • playing with quadrilaterals (geoboard activity)

			Chapter.5 Number Play	• Analyze number patterns and sequences. • Develop number sense through operations and relationships (e.g., factors, multiples). • Apply arithmetic reasoning in problem contexts.	• Divisibility & Pattern Reasoning through MCQs • **Sum of Four Consecutive Numbers** *"The sum of four consecutive numbers is 34. What are these numbers?"*
7	NOVEMBER	23	**Chapter.**6 We Distribute ,Yet Things Multiply	• Apply distributive property in algebraic and arithmetic contexts. • Understand factorization basics—breaking expressions into factors. • Solve problems emphasizing multiplication/distribution strategies.	• **Multiplication Grid Exploration** Students observe a multiplication grid (like an array or table) and use it to illustrate distributive property • **Expression Reasoning** *(implied through exercises)* Textbook problems like simplifying expressions (e.g., (3−x)(3 - x)(3−x)) invite students to notice how values distribute or factorize, leading to deeper algebraic understanding.
			Chapter.7 Proportional Reasoning-1	• Define and solve ratio and proportion problems. • Understand direct and inverse proportion concepts. • Apply rates, percentages, simple and compound interest in context.	• **Proportional Drawing: Human Figure Ratios** • School Mid-Day Meal Scaling • **Distance–Time Proportion: Car Travel** • Comparing Ratios: Tea Packet Pricing • Market-Based Proportionality Survey
8	DECEMBER	18	**Chapters of part -II text book		
9	JANUARY	24	**Chapters of part -II text book		
10	FEBRUARY	23	**Chapters of part -II text book REVISION FOR SEE		
11	MARCH	25	SESSION ENDING EXAMINATION		