ACADEMIC PLANNER SESSION 2026-27
CLASS- VI
SUBJECT- MATHS

Date/Day	CONTENT	ASSIGNMENT/H.W.	ACTIVTY/INTERDISCIPLINARY ASPECT	LEARNING OUTCOME
APRIL (1-15) (11 days)	**BRIDGE COURSE** **Unit 1: Patterns in Mathematics** What is Mathematics? Patterns in Numbers Visualising Number Sequences Relations among Number Sequences Patterns in Shapes Relation to Number Sequences	WS 1	**Art -**Using triangular numbers in geometric patterns and designs. Creating tessellations or origami with triangular numbers. **History** - Triangular numbers in Pascal's Triangle.	Recognise patterns in numbers and shapes Understand the significance of patterns Develop logical thinking through patterns Explore creative uses of mathematics Identify real-life applications of patterns
APRIL (16-30) (13 days)	**Unit 2: Lines and Angles** Point, Line Segment, Line, Ray, Angle, Comparing Angles, Special Types of Angles, Measuring Angles Drawing Angles Using a Protractor Interior and Exterior Angles Types of Angles and their Measures	WS 2	**Art:** Mandala Painting (Art Integration) To observe angles using ice cream sticks and body postures.	Understand point, line segment, line and ray Draw and measure angles Identify and classify angles
MAY (1-15) (11 days) MAY (16-22) (6 days)	**Unit 3: Number play** Numbers can Tell Us Things Supercells Patterns of Numbers on the Number Line Playing with Digits Palindromic Patterns Kaprekar Constant Clock and Calendar Numbers, Mental Arithmetic with Large Numbers, Playing with Number Patterns Simple Estimation Games and Winning Strategies	WS 3		Understand patterns in numbers Explore properties of numbers Solve puzzles and number games Develop estimation and quick calculation skills Learn about supercells and their rules Identify and create palindromes Explore the Collatz conjecture Recognise patterns on the number line Discover the Kaprekar constant Create and analyse digit sums

JULY (1-15) (12 days) JULY (16-31) (14 days)	**Unit 8: Playing with constructions** Artwork Squares and rectangles, Constructing Squares and rectangle An exploration in rectangles Exploring diagonals of squares and rectangles Points equidistant from two given points	WS 8	**Geometry in Art:** Have students create artwork using squares and rectangles exploring concepts like geometric patterns.	Use a ruler and compass effectively Understand the concept of curves and their construction Explore properties of circles and their radius Construct basic geometric shapes Identify properties of squares and rectangles Create symmetrical patterns using constructions Explore the role of diagonals in geometric shapes
AUGUST (1-15) (10 days) AUGUST (16-31) (11 days)	**Unit 5: Prime time** Common multiples and factors Prime numbers Co-prime numbers Prime factorisation Divisibility Tests Prime Puzzles	WS 5	**History:** Primes through ages (NCERT) Pg 114	Understand factors and multiples Identify prime and composite numbers Perform prime factorisation of numbers Understand and identify co-prime numbers Solve problems related to common factors and multiples Learn divisibility rules and their applications
SEPTEMBER (1-15) (11 days)	REVISION OF HALF YEARLY EXAMS			
SEPTEMBER (16-30) (13 days)	HALF YEARLY EXAMS			
OCTOBER (1-15) (10 days)	**Unit 4: Data handling and presentation** Understand Data and Its Uses Collecting and Organising Data Pictographs Drawing a Pictograph Drawing a Bar Graph Artistic and Aesthetic Considerations Infographics	WS 4	**EVS-** Growthchart of a plant. (Pg 168 NCERT)	Define data and its importance Differentiate types of data Gather data systematically Use tally marks and tables Learn to read pictographs Use scales for representation Create bar graphs from data Interpret bar graph information Use colours and visuals effectively Avoid misleading representations

OCTOBER (16-31) (11 days)	**Unit 7: Fractions** Fractional Units And Equal Shares, Fraction as a part of whole, Measuring Using Fractional Units, Marking Fraction Lengths on a Number line, Mixed fractions, Converting a Mixed Fraction into an Improper Fraction, Equivalent fractions, Comparing fractions, Addition and subtraction of fractions, Three and Four Different Fractional Units Adding Up to 1	WS 7	**History:** Pinch Of History NCERT	Understand the concept of fractions Leam to identify fractional units Compare and arrange fractions Represent fractions on a number line Identify and create equivalent fractions Simplify fractions to their lowest terms Perform addition and subtraction of fractions Convert between mixed and improper fractions
NOVEMBER (1-15) (9 Days) NOVEMBER (16-30) (12 days)	**Unit 6: Perimeter and Area** Perimeter Area Area of triangle House Plan	WS 6	**Sports:** To find out the area and perimeter of badminton court.	Understand perimeter and its calculation Learn perimeter formulas for basic shapes Calculate area of closed figures Differentiate between perimeter and area Solve real-world perimeter and area problems Explore relationships between shapes and measurements Enhance problem-solving skills with puzzles Engage in fun activities to apply concepts
DECEMBER (1-15) (12 days)	**Unit 9: Symmetry** Symmetry Line of symmetry Rotational symmetry	WS 9	**Social Science:** Finding Lines Of Symmetry in Historical Monuments. **Art:** Making decorative pieces like snowflake.	Identify lines of symmetry in figures Differentiate between symmetrical and asymmetrical figures Explore real-life examples of symmetry Practise creating symmetric patterns through activities Understand the concept of rotational symmetry Analyse shapes with reflection and rotational symmetry

DECEMBER (16-31) (12 days) JANUARY (16-31) (12 days)	**Unit 10: The other side of zero** What are Integers? Inverse of a Number Comparing Integers Adding and Subtracting Larger Numbers Addition and Subtraction using the Number Line Adding and Subtracting on the Unmarked Number Line The Token Model Integers in Other Places Temperature Hollow Integer Grid Brahmagupta's Rules for Addition and Subtraction	WS 10	**Science:** Temperature changes (positive for heating, negative for cooling) Measure temperatures (ice water vs. warm water)	Recognise positive and negative numbers Locate integers on a number line Apply addition rules for integers Use subtraction as adding the inverse Interpret integer operations using a number line Compare integers using 'greater than' and 'less than symbols Solve addition and subtraction expressions Use models like tokens Learn about the origins of integers and zero in mathematics Perform calculations and visualise integer concepts
FEBRUARY (1-15) (11 days)	REVISION FOR ANNUAL EXAMS			
FEBRUARY (16-28)	ANNUAL EXAMS			

TERMWISE SYLLABUS	
UNIT TEST - 1	**CH -1,2**
HALF YEARLY EXAMINATION	**CH - 1,2,3,5,8**
UNIT TEST - 2	**CH - 4,7**
ANNUAL EXAMINATION	CH - 4,7,6,9,10