Annual Syllabus
Class-VI (2025-2026)
Subject: Mathematics

Chapter Name	Content	Learning Outcomes	Suggested Activities
Chapter – 1 **Patterns in Mathematics**	Patterns in numbers, Visualising number sequences, relations among number sequences, Patterns in shapes, relation to number sequences (Use worksheet no. 4)	The learner will be able to: • visualize number sequences as square numbers, triangular numbers, cube numbers etc. • decode the relation among number sequences • identify patterns in shape sequences and relate it with number sequence	• Observe the patterns in triangular numbers, cube numbers and square numbers. • Look at calendar and find different sequences of numbers.
Chapter – 2 **Lines & Angles**	Point, Line Segment, Line, Ray, Angle, Comparing Angles, Making Rotating arms, Special types of angles, Measuring Angles, Drawing Angles, Type of angles & their measures (Use worksheet no. 12,13,24,26,29,30,34)	The learner will be able to: • differentiate between Point, Line Segment, Line and Ray • measure different angles and label its parts • classify angles into acute, obtuse, reflex, straight and complete and draw them	• Examples of geometrical figures like point, ray, line, line segment from daily life. • Discussion on the topic of light of sun and candle. • identify different type of angles in their surroundings and compare them.
Chapter – 3 **Number Play**	Numbers can tell us things, Supercells, Patterns of numbers on the number line, Playing with digits, Pretty Palindromic patterns, The magic number of Kaprekar, Clock & calendar numbers, Mental math, Playing with number patterns, the Collatz conjecture, Simple Estimation, Games and winning strategies (Use worksheet no. 8,12,13,35)	The learner will be able to: • mark numbers on number line • identify and create palindromic numbers • formulate strategies in everyday numbers	• Check if your birth year or your father/mother mobile number is a palindrome. • Find Kaprekar constant for 3-digit numbers
Chapter – 4 **Data Handling & Presentation**	Collecting & organizing data, Pictographs, Bar Graphs, Drawing a Bar Graph, Artistic & Aesthetic considerations (Use generic worksheet no. 41,44)	The learner will be able to: • collect and organize data • differentiate between pictograph and bar graph and draw them	• Collect information about favourite colour/fruits/sweet/ games etc. of your classmates. • Prepare a table of medals won by India in different

		• represent the given information aesthetically using imagination	international events like commonwealth games, Olympic games, asian games etc. • Record temperature of India in different weathers.
Chapter – 5 **Prime Time**	Common multiples and common factors, Prime numbers, Co-prime numbers for safekeeping treasure, Prime factorization, Divisibility tests, Fun with numbers (Use worksheet no. 2)	The learner will be able to: • find common multiples and common factors • differentiate between prime and co-prime numbers • express numbers as its prime factorization • check the divisibility of the given number by 2,4,5,8,10	• Prepare sieve of Eratosthenes • Puzzles and Riddles based on ➢ common factors and common multiples ➢ Even & odd numbers ➢ Prime & composite numbers • Calendar activity etc.
➢ **The above content must be completed for Mid Term Examination by 6th September, 2025.** ➢ **Mental Maths & Maths Lab Activities** ➢ **Revision of syllabus for Mid Term Examination.**			
MID TERM EXAMINATION			
Chapter – 6 **Perimeter and Area**	Perimeter, Area, Area of a triangle (Use worksheet no. 31)	The learner will be able to: • differentiate between area and perimeter • formulate the perimeter of square and rectangle • apply the concept in daily life situations involving area and perimeter	• In the given grid make rectangles of different sizes but same in area. • Find the area and perimeter of your geometry box and notebook • Use of graph paper to find the area of triangle in cm square.
Chapter – 7 **Fractions**	Fractional units and equal shares, Fractional units as parts of a whole, Measuring using fractional units, Marking fraction lengths on number line, Mixed fractions, Equivalent fractions, Comparing fractions, Addition & Subtraction of fractions, A pinch of history (Use worksheet no. 18,19,20,21,22,23)	The learner will be able to: • identify Fractional Units of a whole & measure the whole using it • represent fractions on the number line and shade the given part as a fraction • compare, add & subtract fractions and solve daily life problems involving fractions	• Divide classroom into parts and write fraction. • Paper folding activities given at the end of book

		• differentiate between mixed and equivalent fractions	
Chapter – 8 **Playing with Constructions**	Artwork, Squares and rectangles, Constructing Squares and rectangles, An exploration in rectangles, Exploring diagonals of rectangles and squares, Points equidistant from two given points (Use worksheet no. 45)	The learner will be able to: • interrelate square and rectangles • construct squares, rectangles and circles using compass and protractor • form different figures using various shapes	• Form any figure using rectangle, square and circle • Finding Circumference with the help of thread
Chapter – 9 **Symmetry**	Line of Symmetry, Paper folding and cutting, Rotational Symmetry, Symmetries of a circle (Use worksheet no. 33)	The learner will be able to: • define symmetrical figures • identify line/lines of symmetry in the figures in their surroundings • differentiate between line of symmetry and rotational symmetry • find angle of symmetry and angle of rotation of any figure having rotational symmetry.	• Conversation on the idea of symmetry: Artists, professionals, designers of clothing or jewellery..... • Activities based on symmetry by folding and punching paper • Copy the diagram about the mirror lines. • Examples of rotational symmetry from real life
Chapter – 10 **The other side of zero - Integers**	Bela's building of fun, The token model, Integers in other places, Exploration with integers, A pinch of history (Use worksheet no. 14,15,16,17)	The learner will be able to: • identify negative and positive integers in their daily life • represent integers on number line • add and subtract integers	• Demonstrate integers with the help of stairs • Find temperature of Delhi and Laddakh in winters and compare them

- **The whole syllabus must be completed for Annual Examination by 31st January, 2026.**
- **Mental Maths & Maths Lab Activities**
- **Revision of whole syllabus for Annual Examination.**

ANNUAL EXAMINATION 2026

Note: The above said syllabus is for assessment purpose only. Other topics/chapters may be taught as Subject Learning Enrichment.