



SANT NANDLAL SMRITI VIDYA MANDIR, GHATSILA



SYLLABUS – STD.VI

SESSION – 2025-26

Yearly Syllabus of Mathematics

MONTH	WORKING DAYS	TOPICS TO BE TAUGHT	ACTIVITY	LEARNING OUTCOME	VALUE IMPARTED	ASSESSMENT
APRIL	21	<p>Patterns in mathematics</p> <ul style="list-style-type: none"> * Introduction * Patterns in numbers * Visualising number sequences * Relations among number sequences Patterns in shapes * Relation to number sequences <p>Lines and angles</p> <ul style="list-style-type: none"> * Point, Line segment, Line, Ray * Angle, Comparing Angles * Making rotating arms * Perpendicular lines 	<p>Pattern Activity using Matchsticks</p> <p>To make intersecting, perpendicular and parallel lines by paper folding.</p>	<p>The learners will be able to:</p> <ul style="list-style-type: none"> * Identify symmetry and sequences in geometry figures * Create new patterns using numbers, shapes and symbols <ul style="list-style-type: none"> * Define and difference between line, line segment and ray. * Using a protractor to measure and construct angle accurately. 	<p>Logical thinking. Creativity. Develops patience. Discipline.</p> <p>Accuracy. Logical thinking. Creativity.</p>	<ul style="list-style-type: none"> * Exercise question answer from text book. * Questions from other reference book related to topic. * Multiple choice questions. * LOA <ul style="list-style-type: none"> * Exercise question answer from text book. * Questions from other reference book related to topic. * Multiple choice questions. * Oral questions answer * Concept map * LOA

MAY	9	Lines and angles *Classifying Angles *Measuring angles *Degree measures of different angles *Types of angles and their measures	*To show various angles by paper folding.		Decision making. Aesthetic sense.	* Exercise question answer from text book. *Questions from other reference book related to topic. *Multiple choose questions. *Oral test *LOA
JUNE	11	Number Play * Supercells * Patterns of numbers on the numbers line * Playing with digits * Digit sums of numbers * Digit detectives * Pretty Palindromic Patterns *The magic number of Kaprekar * Collatz conjecture * Simple Estimation * Games and winning strategies	Sudoku puzzle	*Solve number puzzle and riddles using mathematical logic. * Estimation of numbers.	Confidence. Curiosity. Logical thinking. Critical thinking. Mental agility. Ethical understanding.	* Exercise question answer from text book. *Questions from other reference book related to topic. Class test (10 marks) *LOA
JULY	26	Data Handling and presentation * Introduction *Collecting and organizing data * Pictograph *Bar graph *Infographics	To do a survey and represent the data through bar graph	Collect, record, and interpret data. Construct picture graphs. To collect, record and interpret data	Attention to detail. Economic understanding. Social awareness. Strategic planning. Communication skills.	* Exercise question answer from text book. *Questions from other reference book. *Multiple choose questions. *Draw Graph *Oral questions answers * Differentiate between *Concept map * LOA

AUGUST	24	Prime Time * Jump Jackpot * Prime Numbers * Co-prime numbers for safekeeping Treasures * Prime Factorisation * Divisibility Tests (by 10,5,4,8,2) * Fun with Numbers * Prime puzzle	To find prime numbers from 1 to 100 by Eratosthenes Sieve's method.	* Identify prime and composite numbers. * Apply prime factorization to solve real life problems. * Applying divisibility rules	Confidence. Accuracy and precision. Ethical understanding. Economic understanding.	* Exercise question answer from text book * Questions from other reference book related to topic. * Multiple choose questions. * Oral questions answer * Class test (10 marks)
SEPTEMBER	21	Revision & Half Yearly Examination				
OCTOBER	18	Perimeter and Area * Introduction * Perimeter of a rectangle * Perimeter of a square * Perimeter of a triangle * Perimeter of a regular polygon * Area * Area of a triangle	* To find the area of palm impressions on a grid paper of each group member by counting the squares. * To represent the data so obtained by means of a bar graph.	* Calculate the perimeter of different figures. * Calculate the area of square and rectangle.	Environmental awareness. Perseverance. Critical thinking. Economic understanding.	* Exercise question answer from text book. * Ask uses of real-life situations. * Questions from other reference book related to topic. * Multiple choose questions. * Oral questions answer * Class test (10 marks) * LOA

NOVEMBER	23	Fractions *Introduction * Fractional units and equals shares *Measuring using fractional units *Marking fractional lengths on the number line *Mixed fractions * Equivalent fractions *Simplest form *Comparing fractions * Addition and subtraction of fractions *Brahmagupta's method for adding and subtracting two fractions	To understand and visualize fraction by folding paper into equal parts.	* Differentiate between proper, improper and mixed fraction. * Compare fractions * Operate fractions	To develop sharing idea in life. Ethical understanding. Analytical thinking.	* Exercise question answer from text book. *Questions from other reference book related to text book. *Oral questions answer *Class test (10 marks) * Concept map * LOA
DECEMBER	19	The other side of zero * Integers * Adding and subtracting larger numbers * Addition and subtraction (using number line) * Explorations with integers-A hollow integer grid	To understand the concept of addition and subtraction of integers.	Locate positive and negative integers on a number line. Identify greater and smaller integers Understand the effect of sign (+ and -) in calculation.	Learn how to deal with positivity and negativity. Develop the value of reasoning problem Ethical decision making. Financial responsibility Comparative thinking.	* Exercise question answer from text book. *Questions from other reference book related to topic. *Multiple choose questions. *Oral questions answer *Class Test

JANUARY	22	Playing with constructions * Circle *Squares and Rectangles * Points equidistant from two given point Symmetry * Line of Symmetry * Reflection * Paper folding and cutting * Rotational symmetry * Symmetry of a circle	To understand and perform basic geometrical constructions using a ruler, compass and protractor.	* Drawing a line segment. * Use protractor to making angles. * Use compass to making angles.	Spatial awareness. Strategic planning. Adaptability. Resourcefulness. Innovative and design thinking.	* Exercise question answer from text book. *Questions from other reference book related to text book. * Oral questions answer *Class Test * Exercise question answer from text book. *Multiple choose questions. *Oral questions answer * Activity based on Shadow Play *Class (10 marks)
FEBRUARY	22	Revision & Annual Examination				

Subject Teacher: Mithu Dutta & Jolly Pradhan

Principal