



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

MAY	9	Lines and angles <ul style="list-style-type: none"> *Classifying Angles *Measuring angles *Degree measures of different angles *Types of angles and their measures 	<ul style="list-style-type: none"> *To show various angles by paper folding. 		<ul style="list-style-type: none"> Decision making. Aesthetic sense. 	<ul style="list-style-type: none"> * Exercise question answer from text book. *Questions from other reference book related to topic. *Multiple choose questions. *Oral test *LOA
JUNE	11	Number Play <ul style="list-style-type: none"> * 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	<ul style="list-style-type: none"> *Solve number puzzle and riddles using mathematical logic. * Estimation of numbers. 	<ul style="list-style-type: none"> Confidence. Curiosity. Logical thinking. Critical thinking. Mental agility. Ethical understanding. 	<ul style="list-style-type: none"> * 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 <ul style="list-style-type: none"> * Introduction *Collecting and organizing data * Pictograph *Bar graph *Infographics 	<ul style="list-style-type: none"> To do a survey and represent the data through bar graph 	<ul style="list-style-type: none"> Collect, record, and interpret data. Construct picture graphs. To collect, record and interpret data 	<ul style="list-style-type: none"> Attention to detail. Economic understanding. Social awareness. Strategic planning. Communication skills. 	<ul style="list-style-type: none"> * 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 <ul style="list-style-type: none"> * 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.	<ul style="list-style-type: none"> *Identify prime and composite numbers. * Apply prime factorization to solve real life problems. * Applying divisibility rules 	<ul style="list-style-type: none"> Confidence. Accuracy and precision. Ethical understanding. Economic understanding. 	<ul style="list-style-type: none"> * 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 <ul style="list-style-type: none"> * Introduction *Perimeter of a rectangle *Perimeter of a square * Perimeter of a triangle *Perimeter of a regular polygon *Area *Area of a triangle 	<ul style="list-style-type: none"> *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. 	<ul style="list-style-type: none"> * Calculate the perimeter of different figures. * Calculate the area of square and rectangle. 	<ul style="list-style-type: none"> Environmental awareness. Perseverance. Critical thinking. Economic understanding. 	<ul style="list-style-type: none"> * 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 <ul style="list-style-type: none"> *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.	<ul style="list-style-type: none"> * 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 <ul style="list-style-type: none"> * 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