



SANT NANDLAL SMRITI VIDYA MANDIR, GHATSILA
YEARLY SYLLABUS OF MATHS
SESSION 2025-2026
STD IV



MONTH	WORKING DAYS	TOPIC TO BE TAUGHT	ACTIVITIES	LEARNING OUTCOME	VALUES/ SKILLS IMPARTED	ASSESSMENT
APRIL	14	1.BUILDING WITH BLOCKS *Shapes and Spatial understanding *Drawing of patterns of wall floor, jharokhas ... *Introduction to the basic concept of Arch. *Number and operation (Place value chart) *Knowledge of price and quantity of different things.	1. Draw 2D and 3D shapes, identify the number of faces and in those shapes. AIL Demonstration of real life objects like bricks, balls, boxes, birth day caps to identify the faces of the objects and recognize the shapes.(TRANSDISCIPLINARY) 2. Observe and make arrangement of brick patterns on floors and walls (Outdoor activity)AIL 3. Show a block arrangement and ask students to draw how it looks from the top, front and side views.	*To know the difference between 2D shapes and 3D shapes like square & rectangle , cube & cuboids *Able to understand different pattern of wall, floor, jharokhas and jharokhas. *Able to understand the concept of ARCH. *Write number names and numerals up to 1 lakh. Also understand the Indian and International Place Value System. *Able to solve simple problems and understand the relation between price and quantity.	*Observation *Constructive ability in geometry *Creative thinking and estimation *Critical thinking *Problem solving ability	Activity Class observation Learning outcome assessment Portfolio
APRIL	7	SMART CHARTS *Explain the meaning of data *collecting , representing data record of data using Tally Marks, Pie-Chart BarGraph	1. Students will collect data for different areas from the class and put with in the form of Tally marks Pie chart and Bar graph.	Know about data and analyze it Collection of data and reading the data Representing the data in the form of tally marks , Pie chart and Bar graph	Reading Observation Understanding Analyzing Problem solving Decision making	Activity Class observation Multiple assessment- individual/ group activity

MAY	9	<p>2. LONG AND SHORT</p> <p>*Understanding the basic concept of measuring length</p> <p>* Estimation and comparison of length of various figures and things</p>	<p>1. Measuring the length of different objects like pencil, eraser, pencil box, books, copies, Tiffin box etc.(TRANS-DISCIPLINARY)</p> <p>2. Long jump (interdisciplinary linkage)</p>	<p>*Observing the shortest and longest student in the class by comparing their heights</p> <p>*Recognize the different heights of people or things in their surrounding by estimating</p>	<p>*Self dependent in mathematical</p> <p>*Calculation</p> <p>*Cooperation</p> <p>*Analytical thinking</p>	<p>Activity</p> <p>Class observation</p> <p>Subject Enrichment</p>
JUNE	11	<p>LONG AND SHORT</p> <p>*Ability to compute the distance *Analyzing and Differentiating things as long as short</p> <p>*Calculating the height of different people</p>	<p>3. Quiz based on different units of conversion of length</p> <p>4. Measure the height of your family member and arrange their name as per their height.(TRANS-DISCIPLINARY)</p>	<p>*Able to compute the distance between two places. *</p> <p>Differentiate between the height of people and lengthany objects</p> <p>* Conversion of units from km to m, m to cm and vice-versa</p>	<p>Problem solving</p> <p>Effective Communication</p> <p>Interpersonal relationship</p>	<p>Multiple assessment- QUIZ</p>
JULY	26	<p>A TRIP TO BHOPAL</p> <p>*Number operation (+ - x ÷)</p>	<p>1. Narrate story about your imaginary trip , including numbers(E.G. we traveled 250 km , spent Rs 500 on food....") .(TRANSDISCIPLINARY)</p> <p>2. CUBE method of solving word problems-</p> <p>CIRCLE the number</p> <p>UNDERLINE the question</p> <p>BOX the keywords</p> <p>EVALUATE and draw</p> <p>Solve and check</p>	<p>*To Know the properties of addition, subtraction, multiplication and division.</p> <p>*Add and subtract 3 or 4 digit numbers.</p> <p>*Multiply and Divide 2 or 3 digit numbers by 1 & 2 digit</p> <p>*Identifies greatest and smallest number from the given numbers</p> <p>*Solve number puzzles</p> <p>*Solve basic problems related to everyday life based on numbers.</p> <p>*Able to estimate the sum, difference, product of given number.</p>	<p>Logical thinking</p> <p>Reasoning Presence of mind</p> <p>Ability of rethinking and re editing.</p> <p>Problem solving</p> <p>Decision making</p>	<p>Activity</p> <p>Class observation</p> <p>Multiple assessment – CONCEPT MAPPING</p>
AUG	8	<p>THE WAY THE WORLD LOOKS</p> <p>*Front, Side and top view of different objects</p> <p>*Route map and directions</p> <p>*Shapes of Cubes and Cuboids</p>	<p>1. Observe different objects in classroom from different views and angles</p> <p>2. Draw an outline map of JHARKHAND. Write the name of neighboring states located in the 4 different directions.Also mention their location in the map of INDIA. AIL&(TRANS-DISCIPLINARY)</p> <p>3. Make shapes of cubes and cuboids using nets. Or make a DICE with</p>	<p>*To able to understand the concepts of different views of objects from their surrounding</p> <p>*Visualization of any objects from different angles.</p> <p>*To able to mark the directions on route map , understand the four directions and able to locate the given area in map</p> <p>*Able to make the shapes of Cubes and Cuboids using nets.</p>	<p>Drawing skills</p> <p>Creative thinking</p>	<p>Activity</p> <p>Class observation</p> <p>Learning outcome assessment</p>

			numbers on the opposite faces which added up to 7. AIL			
AUG	16	<p>THE JUNK SELLER</p> <p>*Real story of Kiran successful woman junk seller</p> <p>*Addition and subtraction of money</p> <p>*Conversion of Rupees into paisa and vice-versa</p> <p>*Concept of loan, profit and loss</p>	<p>1. MOCK SHOP -Role play of shopkeeper and customer showing buying and selling of different things. AIL&(TRANSDISCIPLINARY)</p> <p>2. Collect notes of different denomination and make different combinations for a given amount e.g. Rs 250 (2 notes of 100 and 1 note of 50) or (5 note of 50)</p>	<p>*Able to understand the application and solving basic mathematical operation.</p> <p>*Awareness about loan, profit, loss.</p> <p>*Solve basic problems related to money transaction.</p> <p>*Know the value of different currency notes and coins.</p> <p>*Making BILLS</p>	<p>Value of money</p> <p>Self awareness</p> <p>Responsible citizen</p> <p>Honesty</p> <p>Risk taking Ability to compensate</p>	<p>Activity</p> <p>Class observation</p> <p>Learning outcome assessment</p>
SEP		HALF YEARLY EXAM	REVISION			
OCT	18	<p>JUGS AND MUGS</p> <p>*Understanding and measuring the capacity</p> <p>*Determining the sums and difference of capacity</p> <p>*Estimating the capacity of liquid containing in a vessel and verify.</p> <p>*Understanding the units of capacity</p>	<p>1. Compare the capacity of different container by feeling water into it.</p> <p>2. Make your own measuring bottles.</p> <p>3. draw different objects measured in liter / milliliters</p>	<p>Understanding the different units of capacity suitable for measuring bigger / smaller quantities</p> <p>* Able to add/subtract the different quantities</p>	<p>Estimation and testing practical skills</p> <p>Save water</p> <p>Develop critical thinking</p> <p>Problem solving</p>	<p>Activity</p> <p>Class observation</p> <p>Multiple assessment – Oral Portfolio</p>
NOV	8	<p>CARTS AND WHEELS</p> <p>*Shapes and spatial understanding</p> <p>*Circle and its parts</p>	<p>1. Make circles with the help of different circular objects. AIL</p> <p>2. Make your own Spin top by taking a piece of cardboard and tracing circle on it, then making a hole and putting a stick into it. AIL</p> <p>3. Using compass make design in circle of different radii. AIL</p> <p>4. Draw different circular objects you see around your surrounding</p>	<p>*Able to draw circles with different sizes</p> <p>*Identify the circular objects.</p> <p>*Able to name and identify the different geometrical instruments.</p> <p>*Able to find the center, radius and the diameter of a circle.</p>	<p>Creativity and imagination power.</p> <p>Drawing skills</p> <p>Creativity</p>	<p>Activity</p> <p>Class observation</p> <p>Multiple assessment- Individual/ Group Activity</p>
NOV	13	<p>HALVES AND QUARTERS</p> <p>*Concept of fraction</p> <p>*Introduction of new terms like half, quarter</p> <p>*Knowledge of fractional numbers</p> <p>*Mirror half of any given shape</p> <p>* Types of fraction *Basic</p>	<p>1. Paper folding activity AIL</p> <p>2. Complete the picture by drawing the other halves. AIL</p> <p>3. Make fraction art like animals, birds, flowers or wall using color paper, thermocol plates etc AIL.</p>	<p>*Understands the part or a fraction of a whole.</p> <p>*Able to shade the said parts of the given shape.</p> <p>*Able to write the fractional number for the shaded or remaining part.</p> <p>*Able to make parts of given fraction.</p>	<p>Value of caring and sharing</p> <p>Analyzing and interpreting the fractional numbers.</p> <p>Enhanced vocabulary</p> <p>Creative thinking</p>	<p>Activity</p> <p>Class observation</p> <p>Learning Outcome assessment</p> <p>Portfolio</p>

		operation on fractional numbers		*Understand the types of fraction and differentiate. * To be able to solve the word problems involving fractions		
DEC	19	TABLES AND SHARES *Able to multiply and divide *Multiplication as repeated addition and Division as repeated subtraction *Word problems of multiplication and division.	1. Arrange things in sequence and develop the multiplication facts. 2. Skip counting game AIL Divide the class into groups of 2,3,4,5,6,7,8,9 and find the number of groups formed	*Understand the properties of multiplication and division. *Able to multiply 3-4 digit number and divide by 1-2 digit number. *Solve Word problems involving multiplication and division	Confidence Self awareness Self dependency Develop verbal calculation skill	Activity Class observation Multiple assessment- CONCEPT MAPPING
JAN	11	HOW HEAVY? HOW LIGHT? *Units of Measurements of weight *Conversion of different units * Measurement of different objects *Correct use of largest /smallest unit of measurements *Word problems *Use of stamps to sell parcels	1. Weighing different items they collect from the garden, classroom or from their home. AIL 2. Role play – MOCK POST OFFICE (Weighing the parcel , putting the stamp, and other process) AIL	*Able to read the weight on the packets. *Able to compare the weights of any two items *Able to convert KG into Gram (vice-versa) *Solve word problems related to weight of different items *Able to know the price of different postal items including stamps.	Advanced numeracy skills Problem solving Confidence	Activity Class observation Multiple assessment- QUIZ
JAN	11	FIELDS AND FENCES *Concept of fences (boundary or perimeter) *Concept of area *Perimeter and Area of Rectangle and Square	Find the perimeter of Math book Pencil box, Desk etc and some irregular paper cutting with the help of a thread. Draw different shapes on a graph paper and find the number of square to get the area. AIL	*Understands the concept of boundary or perimeter and Area as well. *To be able to use formula for finding the perimeter and area of square and rectangle.	Skill of measurement Drawing skill Reasoning and thinking	Activity Class observation Learning outcome assessment
FEB		FINAL EXAM	REVISION			

Subject Teacher

Principal