

MONTHLY SYLLABUS
SESSION-2017-18
CLASS-IV
SUBJECT : MATHEMATICS

	TERM-I
MONTH	CONTENT
April 2017	<p>Unit 1 : Building with Bricks</p> <p>Bricks Patterns, Floor Patterns, Walls Patterns, Solving Problems based on brick cost, numbers etc.</p> <p>Activities</p> <p>(1) Make patterns with different shapes</p> <p>(2) Make brick patterns made in your house or around your house.</p> <p>(3) Make any wall pattern seen in your neighborhood or school.</p> <p>Mental Maths</p> <p>Unit 2: Long and Short</p> <p>Distance between two dots, Concept of long and short, Comparison of lengths, Units of measuring lengths - cm, m, km</p> <p>Activities</p> <p>(1) Compare length of your hair with your friend or comparing height of students in group of 10.</p> <p>(2) Relation between cm, m and km etc.</p> <p>(3) Conversion of m into cm, km and vice-versa.</p> <p>(4) Addition/subtraction of different lengths.</p>

	<p>(5) Making meter scale using cardboard.</p> <p>Mental Maths</p>
May 2017	<p>Unit 3 : A Trip to Bhopal</p> <p>Waiting for the buses, Estimation of Buses, Beginning of the Journey (Estimation of time), To Bhimbetka (Estimation of Length, distance), Lunch Time — estimation of time.</p> <p>Boating — problems of Cost and Time.</p> <p>Activities</p> <p>(1) To solve puzzles orally based on addition and multiplication like cost, money/time etc.</p> <p>(2) Simple examples from daily life for estimation without calculation.</p> <p>(3) Estimate the weekly budget of your home.</p> <p>(4) Estimation of simple calculations at your home.</p> <p>Mental Maths</p>
July 2017	<p>Unit 4: Tick-Tick-Tick</p> <p>Understanding the clock and time reading, Different hands of clock, Making a clock and reading time, Relation between different hands of clock- second, minute and hour hand. Drawing a time-line to show different events, Conversion of seconds into minutes and hours and vice versa, Reading/Writing of dates/format, Comparison of time, Manufacturing/Expiry dates of products, Time format (12 hr clock, 24 hr clock) Railway Clock.</p> <p>Activities</p> <p>(1) Make a clock with movable hands to show time.</p>

	<p>(2) Draw clock to show different time of a day.</p> <p>(3) Make a time-line on card-board to show some specific events of your life or your school annual events.</p> <p>(4) Problems on conversion of minutes into seconds, hours and so on.</p> <p>(5) Enlist manufacturing/Expiry date of any 10 products used at home.</p> <p>(6) Problems to convert time 12 hr. clock to 24 hr clock time (railway time) and vice-versa.</p> <p>Mental Maths</p> <p>Unit 5 : The Way the World Looks</p> <p>View of different objects from different directions, Spatial understanding of directions and views, Mapping your way, Formation of dice by paper folding.</p> <p>Activities</p> <p>(1) Drawing pictures of different views- front, side, above of small objects like book, box etc.</p> <p>(2) Make map of the way from home to school, map of school and map of the classroom.</p> <p>Mental Maths</p>
August 2017	<p>Unit 6 : The Junk Seller</p> <p>Calculation of Cost and value of things by multiplication, Concept of Loan, Finding cost with verbal/mental calculation (multiples), Different ways of multiplication, Counting of Currency-Coins and Notes.</p> <p>Activities</p>

	<p>(1) Role-play of buyer and seller.</p> <p>(2) Calculate the bill of grocery at your home for a week.</p> <p>(3) To make a list of currency used in different countries.</p> <p>(4) Counting money for different number of coins and notes.</p> <p>(5) Problems on finding cost by multiplication and addition.</p> <p>Mental Maths</p>
September 2017	<p>Unit 7: Jugs and Mugs</p> <p>Measurement of liquids in litres, ml, kl etc. Conversion of ml into litres and vice-versa, Estimation of quantity according to size of different liquids used at home.</p> <p>Activities</p> <p>(1) Collect pouches / bottles of different liquids used at home and note their measurement.</p> <p>(2) Complete 1 litre by adding / multiplying different quantities of ml.</p> <p>(3) Collect a bottle / Jar and mark ml / litre etc. on it.</p> <p>(4) Estimate the amount of water used in different works at our home in one day.</p> <p>Mental Maths</p>
	TERM-II
October 2017	<p>Unit 8 : Carts and Wheels</p> <p>Circular shapes around us — wheels and bangles etc., Drawing circle with different circular shapes, Radius and diameter of circle. Semicircle, Comparison of sizes of circles on the basis of Radius, Drawing circle using compass, Centre of the circle.</p>

	<p>Activities</p> <p>(1) Enlist any 5 objects from your daily life which have circular shapes.</p> <p>(2) Name some games in which we draw circles to play.</p> <p>(3) Make 3 circles of different sizes with objects around you.</p> <p>(4) Draw different designs of circles using compass.</p> <p>(5) Making a spin top using card-board.</p> <p>(6) Marking centres of different given circles.</p> <p>Mental Maths</p>
November 2017	<p>Unit 9 : Halves and Quarters</p> <p>Half and quarter parts (whole to part)</p> <p>Dividing different shapes into halves and quarters ($\frac{1}{2}$, $\frac{1}{4}$)</p> <p>Simple word and money problems on fractions.</p> <p>Completion of whole part with given fraction (part to whole), $\frac{1}{2}$, $\frac{1}{4}$, $\frac{3}{4}$ parts of metre, litre and kilogram and 1 rupee.</p> <p>Activities</p> <p>(1) Make and cut different shapes on paper and divide into $\frac{1}{2}$ and $\frac{1}{4}$ by paper folding.</p> <p>(2) Draw different geometrical shapes and show $\frac{1}{2}$ and $\frac{1}{4}$ parts with different colours.</p> <p>(3) To complete different objects for given fraction / parts of objects.</p> <p>(4) To find $\frac{1}{2}$, $\frac{1}{4}$, $\frac{3}{4}$ parts of 1 metre, 1 litre and 1 kilogram.</p> <p>Mental Maths</p>

	<p>Unit 10 : Play with Patterns</p> <p>Block patterns and designs, Pattern series with letters and numbers, Completion of pattern of series, Magic patterns, Magic triangle, Building of number patterns, Patterns with addition of different numbers, Number tower patterns with addition, Decoding of different series of numbers and letters, Floor patterns.</p> <p>Activities</p> <p>(1) Make your designer block and draw a series of patterns on a cloth/paper.</p> <p>(2) Completing different given series of letters and numbers.</p> <p>(3) To complete and fill the given magic patterns and number series with addition.</p> <p>(4) Use different geometrical shapes and make your floor patterns.</p> <p>Mental Maths</p>
December 2017	<p>Unit 11 : Tables and Shares</p> <p>Table, formation of tables, Making table of higher number by adding tables of two numbers. How many cats : Finding the number of legs.</p> <p>Gangu's Sweets: Finding number of boxes, cost etc. with division and multiplication.</p> <p>Activities</p> <p>(1) Make table of 15 or any other number using tables of 2 different numbers</p> <p>(2) Simple multiplication problems</p>

	<p>(3) Jumping animals : Simple Division</p> <p>(4) Sea Shells: Division and Multiplication</p> <p>(5) Simple word problems of multiplication and division</p> <p>(6) Division by long method</p> <p>(7) Different ways of division</p> <p>(8) Forming word problems in division</p> <p>(9) Make any 5 word problems on division</p> <p>Mental Maths</p> <p>Unit 12: How Heavy? How Light?</p> <p>Compare weight of different things, Unit of measurement of weight, Weighing balance, Weight of Elephant, Comparative Understanding, Broken Stones. Post Office — Postage Stamps, Sending parcel according to weight.</p> <p>Activities</p> <p>(1) Making a balance.</p> <p>(2) Comparison of weights of objects like cotton, stones etc.</p> <p>(3) Collecting Postage Stamps of different countries.</p> <p>(4) Ratio between weight and height.</p> <p>Mental Maths</p>
January 2018	<p>Unit 13: Fields and Fences</p> <p>Concept of Perimeter, How to find perimeter of given figure, Simple Word Problems of perimeter, Puzzle and Squares.</p> <p>Activities</p> <p>(1) Find out the perimeter of given figures.</p>

	<p>(2) Perimeter of different things and shapes.</p> <p>(3) School Gardens: Finding Perimeter</p> <p>(4) Estimation of Perimeter of different objects in square boxes.</p> <p>(5) Draw squares of different sizes and compare their perimeters.</p> <p>Mental Maths</p>
February 2018	<p>Unit 14: Smart Chart</p> <p>Concept of Data handling, Making frequency tables for time used in different activities, Favourite Food : Filling the table.</p> <p>Activities</p> <p>Make a frequency table for favourite subjects of your classmates.</p> <p>(1) Drama Chart — Reading information</p> <p>(2) Chapati Chart — (Pie Chart) Activities</p> <p>Make a drama chart to show how many children of your class like tea, coffee, milk, cold drink etc.</p> <p>Mental Maths</p> <p>Unit-6 : “The Junk Seller”</p> <p>This chapter of Term-I will be repeated and evaluated in Term-II as per Department Guidelines.</p>