Month	SYLLABUS	Lesson	Concept/Key areas	Suggested Activities	Expected Learning Outcomes	TLM/Resources	Values/Skills	Period/hr
April	• GEOMETRY Shapes and Spatial Understanding NUMBERS Numbers And Operations	• Building with bricks	Uses Tangram to create shapes. Makes 4 faced, 5 faced, 6 faced from given nets especially designed for the same. Reads and draws 3D objects. Explores intuitively reflections through inkblots, paper cutting, paper folding(symm etry) Number and Operations-Up to One Lakh (Place value chart).	•Identify the number of faces in different 3D, 2D shapes. •Identify the faces of a brick and recognizes the shapes. •Collect cuboidal objects from surroundings. •Identify and observe different features like wall, floors, Jharokas, Jaalies etc. •Visit to a bricks kiln etc. •Observe and make arrangement of brick patterns on floor and walls. •Find the length, breadth and height of a brick •Observe arches at	 Knows the difference between 2D and 3D shapes like Square, rectangle, cube, cuboids. Makes different wall and floor patterns, Jaalies and Jharokas Draws line of symmetry in different patterns Solves simple problems mentally Understands Indian and International place value chart Writes Number names and numerals. 	Objects from classroom situations, flash cards of numbers. Abacus .coins, ganit- mala sticks Net resources for picture of Historical monuments with arches ,jellies.	 Drawing information, gathering Drawing ability in geometry Creative thinking and estimation. Develops reasoning and imagination. 	15

	,
different	
places.	
•Sequential	
arrangement	
of jumbled	
pictures of	
making of a	
brick.	
•Number	
system through	
number cards –	
One lakh.	
•Difference	
between cube	
and cuboid.	
•Make models	
of a cube and	
cuboid.	
•Integrated	
with EVS	
(arches of	
foot)	

Month	SYLLABUS	Lesson	Concept/Key areas	Suggested Activities	Expected Learning Outcome	TLM/Resources	Values/Skills	Period/h r
Apr/May	• NUMBERS : Number and operations • MEASURE MENT	Long & Short	 Understands and writes multiplication facts. Writes tables 10x10 Applies the four operations to life situations. Appreciates role of place value in plus (+), Minus(-), multiplication(x) and percentage (%). Understands and relates meters with centimeters Convert meters into cms and vice versa. Solves problems involving length and distances. Estimates length of an object and distance between two given locations. 	 Estimate the length of various figures and making them larger or shorter than the given figure. Find the length of boundary of Math's text book, desk, teacher's table etc. Calculate the distance between school and home, market, school ground, park etc. Find the tallest/shortest member of their class, family. Guess the approx height of prominent landmarks - like Qutub Minar, TV tower, school building etc. Convert from lower to higher and vice versa (races). Solve word problems related to length. 	•Understand s the relation between - cm - metre-Km • Knows the various units of length •Understand s the various units of measure mentConverts higher units to lower units and vice versa •Estimates and learns to compares height with the height of others. •Organized	 Objects from class room situations like ribbons,pencil etc Measuring tape ,wooden scale Appropriate visuals to explain the concept. 	 Develops practical skills & drawing skills. Ability of estimation thinking and reasoning. Develops mathematic attitude. 	20
					games			

				like	
				50M/100	
				M race,	
				Long	
				Jump,	
				High	
				jump.and	
				knows .	
				conversi	
				on of	
				units	
				through	
				it.	
				•Estimates	
				the	
				length	
				and	
				makes	
				them	
				larger or	
				shorter.	
				•Knows to	
				calculate	
				the	
				distance	
				between	
				their	
				school &	
				home.	
				●.	
-do-	Long &	Knows the relation	 Measuring of 		
	Short	between metre and	different objects like		
	Contd	kilometres	pencil. ribbon, etc.		
		• Various units of length.	and making them		
		• Estimating and	short or long.		
		measurement of places			
		like fields, park.			

			Comparison of heights					
Jun/July	NUMBER Number and Number Operations MENTAL ARITHEMAT IC Adds and subtracts multiples of 10 and 100, mentally.	A Trip to Bhopal	 Understand and write multiplication facts. Write tables up to 10x10. Multiply/Add/Subtract two three digit numbers. Apply four operations to life situations. Frames word problems. Estimates sum differences and products of given numbers. Mental arithmetic 	 Number operations related to problems pertaining to a trip/educational excursion such as No of students, no of seats in a bus, time management. Understand the distance time taken,, no of buses required and the amount and money spent. Learns to read the table showing tickets, trip time etc and apply operations. Activity what happened at what time during trip to Bhopal. Addition and subtraction multiplication and division of 3 – 4 digits numbers. To make smallest and greatest number by the given numbers Frame word problems using four basic operations. Practice on 	 Underst ands the properties of addition and subtraction. Solving number puzzles. Makes the greatest and smallest. number from the given number s Solves simple problem s related to time, money. Compares the number s. and Knows how to find the 	 Map of India, locality or district. Abacus and flash cards of numbers. 	Logical thinking. Ability, to calculate mentally. Estimation / reasoning.	20

				addition, more or less than, multiplication by 10.	differen ce between two digit and three digit number s.			
Jun/July	• TIME 12 hours clock time 24 hours clock time Concept of am/pm Time table Calendar.	Tick Tick Tick	 Computes the no. of weeks in a year. Correlates the no. of days in a year with the no. of days in each month. Justifies the reason for the need of a leap year. Reads the clock time to nearest hour and minutes. Expresses time using the terms a.m. and p.m. Estimates duration of familiar events. Find approx time elapsed by (to the nearest hour) forward counting. Computes the no. of days between two dates. 	 Read a clock and tell the time both in 12 hour and 24 hour time. Show the time-3 hour's later-5hours earlier etc. similar drill. Calculate hours /minutes between two given dates. Convert 12 hour clock time and vice versa. Read railway/bus/timetabl e and ticket. List of activities done in a) 1 Minute (b) Less than 1 hour (c) About an hour Draw the hands on a clock to 	•Understand s the divisions on the face of a clock. • Understa nds the concept of 12 hour and 24 clocks. Converts 12 hour time to 24 hour clock time and vice versa • Understa nds the conversi	 Clock Old Calendars Used wrappers or boxes of food items and medicines A potted plant School diary. Newspaper. 	Understanding of clock – functioningPunctuality -Time management -Accuracy.	12

				1 .		
			show the given time.	on from		
			• Write various	hour-		
			activities done in	minute-		
			am/pm	second		
			 Find life span 	and vice		
			of different	versa.		
			animals.[Integrated	•Learns to		
			with E.V.S.]	read a		
			 Growth of 	clock.		
			plant/life span.	Differentiat		
				es		
				between		
				am and		
				pm		
				•Learns to		
				read a		
				calendar		
				Understand		
				s the		
				manufact		
				uring and		
				expiring		
				date on		
				eatables		
				medicine		
				s etc		
				• Expresses		
				daily		
				routine		
				on Time		
				Line.		
				•Converts		
				hours		
				into		
				minutes		
				into		
				seconds		
<u> </u>	<u> </u>	<u> </u>		1		l

			and vice versa •Solves word problems		
Aug	Contd.	 Use school diary to mark- Daily activities in correct order on time line Duration of autumn, summer break/Days/D ates of holidays/festiv als. [Integrated with letter writing in Languages.] Collect time of sunrise/sunset from newspaper. Calculate day span. Show daily routine on time line 12 hr 			5

				clock/24 hour				
				clock.				
				CIOCK.				
				•				
Aug	GEOMETRY	The way	Understanding spatial	To know and	•Look at	Objects	-Develops	10
	:	the world	distribution	draw top and side	things	from	creative	
	• Shapes	looks	0.30.10 0.00	view of some items-	from	classroom.	thinking,	
	and spatial			spoon, car ,railway	different	 Map 	Understanding	
	understanding			line etc.	views	1,144	of sides angle,	
	8				and		distance in a	
					distances		diagram/figure.	
					, sides'			
					angles.			
		The ways	Understanding	Observe a	•Identifies			
		the world	concepts of different	picture/or route map	top side			
		looks	views of objects from	carefully and mark	front			
			your surroundings.	the directions with	view of			
			 Visualization of objects 	reference to ones	different			
			from different angles.	position (left right).	objects.			
			• Directions	 Draw a map 	Draw top			
			 Makes the shapes of 	on the floor and ask	side front			
			cubes and cuboids	children to stand on	view of			
			using nets.	the map and locate	different			
			 Intuitive idea of a map. 	different things	objects			
				around them in	Is able tor			
				different directions	read a			
				 Make a cube 	map of			
				with numbers on the	school or			

		opposite faces which	city and		
		add up to 7(.Dice)	write		
		 Draw a picture 			
		of, pressure cookers;	direction		
		chair a bowl etc from	s to reach		
		the side top and	different		
		front. Students may	places?		
			Understand		
		pictures of their own	s the four		
		choice.	direction		
			s and is		
			able to		
			locate the		
			given		
			area in		
			the map.		
			Understand		
			s the		
			direction		
			s related		
			to one's		
			position		

Mont h	SYLLABUS	Lesson	Concept/key areas	Suggested Activities	Expected Learning Outcomes	TLM/Resources	Value/Skills	Period/hr
Aug	Numbers-Number and Operations	The Junk seller	Writes multiplication facts. Writes tables up to 10x10. Multiplies two and three digit number using lattice algorithm and standard (column)algorith m Converts rupees to paisa and vice versa. Adds and subtracts amounts using +and - with regrouping. Uses operations to find totals, change, multiple costs and unit cost. Estimates roughly the totals Basic operation of numbers Money	 To convert rupees into paisa. Mock junk shop showing buying and selling. Of Junk Items. Make list of things sold in the junk market. Mock bank showing lending and borrowing /buying and selling. Collect notes of different denomination s and make different combinations for a given amount. Making a bill. Word problems 	 Can purchase things from the market and compare their price Awareness about loan through discussion. Understands the multiplication strategies by 10, 100, 1000. Understands lattice multiplication using expanded notation. Makes a bill Understands the concept of loan, profit and loss.	Object from the class room. Fake rupees and coins	-Value of moneySolving problems of day to dayLogical thinking	11

	transaction	 First guess the answer and then calculate. Mental arithmetic. And Worksheets on addition subtraction and multiplication 		
of2digit by3		subtraction and		
digit numbers and bills		of2digit by3 digit numbers		

Mont	SYLLABUS	Lesso	Concept/ Key	Suggested	Expected	TLM/Resources	Values/Skills	Period/h
h		n	areas	Activities	Learning			r
					Outcomes			
Sep		Jugs	 Understand 	 Compar 	 Understa 	 Different 		12+8
	MEASUREMEN	and	and	e the volume	nds which unit	types of	 Estimation 	
	T	Mugs	measures	of different	of volume to	containers	and testing	
	Volume		volume of a	things by	be used for	from	practical	
			given liquid	putting them	smaller	 classroom, 	skills	
			using	into jar filled	quantities and	,math ,lab, or	 Recall and 	
			containers	with water.	bigger	chemistry lab	recollect.	
			marked with	 Observe 	quantities.	of different		
			standard	the different	 Makes 	capacities		
			units.	capacities in	litres in	 Different 		
			 Determine 	ml and liters	different	type of		
			s sums and	 Guess 	ways.(Differe	containers		
			differences of	how much	nt	available in		
			volumes.	water can	combinations)	the market		
			 Estimates 	jugs, mugs	 Solves 	for oil, milk,		

the volume of a	bottles and	word	soft drinks	
liquid contained	glasses of	problems	etc.	
in a vessel and	different	related to		
verifies by	measures	volume		
measuring	hold.	 Knows 		
• Understan	List $3-5$	which items		
ding the units of	items which	are measured		
volume	are measured	in liters and		
 Measuring 	in liters, ml.	milliliters		
can bottle.	 Capacity 	 Knows 		
	of	how to		
	wrappers/label	converts the		
	s like plastic	smaller units		
	bottle of	into larger		
	water, cooking	units and vice		
	oil, tetra pack	versa.		
	of milk etc.	 Makes 		
	 Make 	own		
	measuring	measuring		
	bottle using a	bottle.		
	bottle of	 Adds and 		
	known	subtracts the		
	capacity.	given		
	Practice, solve	quantities of		
	small	the liquid.		
	problems	 Solves 		
	related to	problems		
	capacity	Solves puzzles		
	mentally			
	Puzzles.			

Mont h	SYLLABUS	Lesson	Concept	Suggested Activities	Expected Learning Outcomes	Resources	Values/Skills	Period/h r
Oct	GEOMETR Y Shape and spatial understanding •	Carts and Wheel s	 Draw a circle free hand, with different objects in the class; with compass. Identifies centre ,radius and diameter Knowledge about round objects. Understanding the concept of drawing circles. Concludes the relationship between the length of the string and the size of the circle formed 	 Games with circles. (equal distribution) Observe e and identify round and circular objects from the surroundings. Collect objects which are circular like bottle cap bangles, rings etc top of a class, 25 p coin. Make circles using coins, bangles etc different sizes using free hand Find radius of different 	 Lea rns to draw circles of different sizes with the help of a string/rop e and nail Fin ds centre of a circles Sol ves simple problems related to circle, radius and centre. 	 Net resources Round objects in the classroom Geometry box 	 Identification of various geometrical objects Drawing Skills Construction and comparison 	16

 T	1	 			 	
			types of			
			wheels			
			Name			
			and identify			
			geometrical			
			instruments			
			• Find			
			the centre by			
			paper			
			folding			
			• Find			
			centre of a			
			circle that			
			cannot be			
			cut or folded			
			• Make			
			your spin			
			top			
			Using			
			compass			
			make			
			designs			
			• Drill			
			and practice			
			exercises to			
			find radius,			
			diameter and			
			drawing			
			circles of			
			known			
			radius.			
			• Integra			
			ted with			
			drawing and			
			games.			
			•			

Nov NUMBERS • Fractional numbers Analyzing and gractivity (chappati cutting cake, equivalence of 2/4 and ½ and of 2/2,3/3,4/4. and 1. effections and quarters • Measurement Halves and Quarters • Identifies half one fourths of a whole and of a whole given into halves in different ways • Explain the meaning of ½,1/4,3/4. • Appreciates equivalence of 2/4 and ½ and of 2/2,3/3,4/4. and al 1. part/fraction in capacity weight • Measurement • Measurement Halves and quarters • Identifies half one fourths of a whole given into halves in different ways • Explain the meaning of ½,1/4,3/4. • Explain the meaning of ½,1/4,and activity (chappati cutting cake, apple role etc. • Familiarises with the vocabulary related to fractions. • Measurement • Lidentifies half one fourths of a whole given into halves in collection, fractions and caring in class. • Color de Halves and collection, fraction as fraction as division. • Color quarters • Color quarters • Can write • Can write	Mont	SYLLABUS	Lesson	Concept/ Key Areas	Suggested Activities			Values/Sk	Period/hr
• Fractional numbers and Quarters half one fourths of a whole identifies the symbol ½,1/4, ¾. • Explain the meaning of ½,1/4,and 3/4. • Appreciates equivalence of 2/4 and ½ and of 2/2/3,3/3,4/4. and 1. • Measurement • Measurement half one fourths of a whole given into halves in different whole given into halves in collection. • Divide the given into halves in collection. • Understands the concept of halves, quarters (chappati cutting cake, apple role etc. • Appreciates equivalence of 2/4 and ½ and of 2/2,3/3,4/4. • Measurement • Measurement • Measurement • Measurement • Colour part/fractio related to fraction as and caring of a whole and of a collection. • Colour part/fractio related to fractions. • Colour vocabulary related to fraction as division. • Can write	h					Outcomes	sources	ills	
relates 1 kg into Gms. Volume or Weights-related 1 kg collection. and understands the picture the term	h	NUMBERS • Fractional numbers	Halves and	 Identifies half one fourths of a whole Identifies the symbol ½,1/4, ¾. Explain the meaning of ½,1/4, and 3/4. Appreciates equivalence of 2/4 and ½ and of 2/2,3/3,4/4. and 1. full halves and quarters Relates meters into centimeters. Weights-relates 1 kg into Gms. 	 Color ½ , ½ , ½ , ⅓, ⅓, ²/₃. Divide the given into halves in different ways Paper folding activity showing halves and quarters and three fourths. Colour part/fraction of a collection, groups of halves or quarters in a given collection. Complete 	Outcomes • Understands Part/fraction of a whole and of a collection. • Understands the concept of halves, quarters (chappati cutting cake, apple role etc. • Familiarises with the vocabulary related to fractions. • Understands fraction as division. • Can write fractions and understands	Round objects	Analyzing and interpreting the fractional number its representation in capacity/weight	

	equivalence	and market	equivalent to	
	equivalence	$\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{3}$, $\frac{2}{3}$.	a given	
	·	in a	fraction.	
		string/water bottle.	• Understands	
			different type	
		• Solve day	of fractions –	
		to day life	Like /unlike	
		problems	fractions	
		Using a	,Unit	
		price list.	fractions	
		Note- The	,proper	
		teacher can	improper	
		correlate the	fractions etc	
		story- Greedy	• Finds the cost	
		Kundu with	of given	
		"Muft hi	objects (1 kg,	
		Muft" in	½ kg, ¾ kg)	
		Hindi(Class	by mock	
		4)	shopping,	
		,	• Solves	
			different	
			problems	
			related	
			• Solves	
			different	
			problems	
			related to	
			whole half	
			and quarter	
			Integrated	
			with	
			languages	
			and EV.S	

SYLLABUS	Lesson	Concept/Key	Suggested	Expected	TLM/Resources	Values/Skill	Period/h
		area	Activities	_			r
				Outcomes			
PATTERNS • Identifies patterns in square numbers and triangular numbers • Identifies geometric al patterns based on symmetry	Play with Pattern s	Identifies patterns in surroundingsMakes patterns and designs from straight lines and other geometrical shapesMakes border strip and tiling patternsIdentifies patterns in multiplication and division, multiples of 9. Casts out nines from a given number to check if it is a multiple of 9 Multipli es and divides by 10's and 100's. Identifies geometrical patterns based on symmetry.	 Observe the pattern around them e.g. grill sari, bed sheet, floor etc. and recognize the basic unit/rule/sequence. Make patterns with numbers, alphabets & pictures Complet e magic squares and triangles Coding and decoding a secret message with a rule. Observe the tilling pattern in a floor and make floor patterns and wall patterns. 	Outcomes Observes and understands the patterns. Realizes the rule of creativity in a pattern. Learns to identify symmetrical and non- symmetrical shapes, letters alphabets and numbers. Generates patterns involving number operations. Compute s the given patterns using addition subtraction multiplication division. Applies rule to Floor patterns, coded messages , puzzles and	 Flash cards of number, alphabets. Samples of patterns Geometrical shapes 	Identification of symmetrical and non-symmetrical shapes. • Develops mastery over division and multiplicat ion operations.	7
	PATTERNS • Identifies patterns in square numbers and triangular numbers • Identifies geometric al patterns based on	PATTERNS • Identifies patterns in square numbers and triangular numbers • Identifies geometric al patterns based on	PATTERNS • Identifies patterns in square numbers and triangular numbers • Identifies geometric al patterns based on symmetry • Casts out nines from a given number to check if it is a multiple of 9 • Multipli es and 100's. • Identifies s geometrical patterns in multiplication and divides by 10's and 100's. • Identifies s geometrical patterns based	PATTERNS • Identifies patterns in square numbers and triangular numbers • Identifies geometric al patterns based on symmetry Patterns • Casts out nines from a given number to check if it is a multiple of 9 • Multipli es and divides by 10's and 100's. • Identifies geometrical patterns in multiplication and divides by 10's and 100's. • Identifies geometrical patterns based on segment patterns in multiple of 9 • Multipli es and divides by 10's and 100's. • Identifies patterns in surroundings. -Makes patterns and designs from straight lines and other geometrical shapes. -Makes border strip and tiling patterns in multiplication and division, multiples of 9. • Casts out nines from a given number to check if it is a multiple of 9 • Multipli es and divides by 10's and 100's. • Identifies patterns in surroundings. -Makes -Makes border strip and tiling patterns with numbers, alphabets & pictures • Complet e magic squares and triangles • Coding and decoding a secret message with a rule. • Observe the pattern around them e.g. grill sari, bed sheet, floor etc. and recognize the basic unit/ rule/sequence.	PATTERNS Play with patterns in square s numbers and triangular numbers Identifies geometric al patterns based on symmetry Patterns Description Patterns Patterns Patterns and designs from straight lines and other geometrical shapes. -Makes border strip and tiling patterns. -Identifies patterns in multiplication and division, multiples of 9. Casts out nines from a given number to check if it is a multiple of 9. Multipli es and divides by 10's and 100's. Identifies geometrical shapes. -Makes border strip and tiling patterns. -Identifies patterns in multiplication and division, and division, and division, multiple of 9. Multipli es and divides by 10's and 100's. Identifies patterns in sin multiplication and division. Identifies patterns around them e.g. grill sari, bed sheet, floor etc. and recognize the basic unit/ rule/sequence. Make patterns with numbers, alphabets & pictures alphabets and numbers. Complet e magic squares and triangles of 9. Multipli es and divides by 10's and 100's. Identifies patterns in and designs from from a given number to check if it is a multiple of 9. Multipli es and divides by 10's and 100's. Identifies patterns around them e.g. grill sari, bed sheet, floor etc. and recognize the basic unit/ rule/sequence. Make patterns with numbers, alphabets & pictures alphabets and numbers. Complet e magic squares and triangles of 9. Multipli es and divides by 10's and 100's. Identifies patterns and designs from floor patterns unity patterns unity patterns and designs from floor patterns around them e.g. grill sari, bed sheet, floor etc. and recognize the basic unit/ rule/sequence. Make patterns with numbers, alphabets & pictures alphabets and numbers. Complet e magic squares and triangles of 9. Multipli es and divides by 10's and 100's. Identifies patterns and designs from from and division, multiplication diventifies and numbers. A Complet e magic squares and triangles of 9. Multipli es and divides by 10's and 100's. Identifies patterns and designs from for eactif	PATTERNS • Identifies patterns in square numbers and triangular numbers • Identifies geometric al patterns based on symmetry area Activities • Observe the pattern around them e.g. grill sari, bed sheet, floor etc. and trecognize the basic unit/ rule/sequence. shapes. - Makes border strip and tiling patterns Identifies patterns in multiples of 9 • Casts out nines from a given number to check if it is a multiple of 9 • Multipli es and divides by 10's and 100's. • Identifies patterns in multiple of 9 • Multipli es and divides by 10's and 100's. • Identifies patterns in multiple and division. • Identifies patterns based on symmetry • Identifies patterns in square and triangles and divides by 10's and 100's. • Identifies patterns based on symmetry • Observe the pattern around them e.g. grill sari, bed sheet, floor etc. and recognize the basic unit/ rule/sequence. • Make patterns with numbers, alphabets & patterns with numbers. • Complet e magic squares and triangles around them e.g. grill sari, bed sheet, floor etc. and non-symmetrical and non-symmetrical shapes letters alphabets and numbers. • Complet e magic squares and triangles involving triangles involving number operations. • Coding and decoding a secret message with a rule. • Observe the pattern and understands the patterns of creativity in a patterns. • Learns to identify symmetrical shapes, letters alphabets and numbers. • Generates patterns in involving number operations. • Coding and decoding a secret message with a rule. • Observe the pattern and understands the patterns. • Realizes the rule of creativity in a patterns. • Learns to identify symmetrical shapes. • Generates patterns in nultiplication dumbers. • Geometrical shapes. • Generates patterns in numbers. • Geometrical shapes ever the patterns and numbers. • Geometrical shapes ever the tilling patterns in numbers. • Geomerates patterns in numbers. • Geometrical shapes ever the till of creativity in a patterns. • Coding and decoding a secret message with a rule. • Observe the patter	PATTERNS Identifies patterns in square numbers and triangular numbers based on symmetry Identifies patterns and triangular numbers and other geometrical al patterns based on symmetry Identifies patterns and other geometrical shapes. - Makes border strip and tiling patterns Identifies patterns in multiplication and division, multiple of 9 - Casts out nines from a given number to check if it is a multiple of 9 - Multipli es and divide by 10's and 100's. - Identifies geometrical shapes and division, and division and division and division and idivision. - Complet to the tilling patterns in multiple of 9 - Multipli es and divide by 10's and 100's. - Identifies patterns in multiple of 9 - Multipli es and divide by 10's and 100's. - Coding and decoding a form triangles and decoding a division. - Coding and decoding a division, and division and division. - Coding and decoding a division. - Complet to the tilling patterns in a floor and make floor patterns and wall patterns. - Develops mastery over division and non-symmetrical shapes. - Learns to identifies spatterns and non-symmetrical shapes. - Learns to identifies spatterns and non-symmetrical shapes. - Learns to identifies spatterns and non-symmetrical shapes. - Complet to decentifies patterns and non-symmetrical shapes. - Complet to describe the rule of creativity in a patterns. - Learns to identifies spatterns and numbers. - Complet to identifies and division, and division. - Complet to identifies and division. - Compl

Mont	SYLLABUS	Lesso	Concept	Suggested	Expected	TLM/Resources	Values/Skills	Period/h
h		n		Activities	Learning			r
					Outcomes			
Dec	NUMBERS	Tables	 Understand 	 Arrange 	•			11
	AND	and	s and writes	things in	Understands			
	OPERATION	Shares	multiplication	sequence and	the properties	Flash cards		
	\mathbf{S}		facts.	develop the	of	of numbers		
			• Writes	multiplication	multiplicatio	Multiplicati		
			tables up to 10x10.	fact e.g. desks	n.	on strips.		
			 Divides a 	in the	•	Puzzles		
			given number by	classroom with	Learns to	related to	Learns	
			another number in	different	multiply and	division	application of	
			various ways.	combination	solve	and	multiplication	
			By dots	• Building	problems.	multiplicati	and division in	
			• By	of	• Knows	on.	solving various	
			grouping	multiplication	the properties		word	
			• By	tables with the	of division.		problems/proble	
			multiplication	help of	•		ms in a given context.	
			facts	patterns.	Divides a		Context.	
			By repeated	• Jumping	numeral by			
			subtraction.	activity -	one digit			
			 Applies 	Children jump	numeral.			
			four basic	equal steps in a number line	• Solves			
			operations.	and count the	word			
			• Frames		problems			
			word problems	no of jumps taken.	involving			
			 Different 	~	division.			
			ways of	• Skip counting	• Underst			
			multiplication.	• Using	ands that			
			 Knowledge 	class room	multiplicatio			
			of terms used in	situation	n is repeated addition and			
			multiplication and	children make	uses the			
			division.	Cilidicii iliake	uses the			

	multiplicatio		
	n facts.		
	• Frames		
	word		
	word problems		
	• Solves		
	daily life		
	problems.		

Mont h	SYLLABUS	Lesson	Concept/ Key Areas	Suggested Activities	Expected Learning Outcomes	Resources	Values/Skills	Period/h
Jan	MEASUREMENT Weights	How Heavy How Light	 Weighs objects using a balance and standard units. Determines sums and differences of weights. Estimates the weight of an object and verifies using a balance 	 Compare the items which are heavy/heavier/heaviest. Estimate weights of familiar objects in class. Differentiate things bought in grams and kilograms. Compare the weights and height Understands how to read the postal rate 	Observes and understan ds the higher and lower units of measure ment Makes balance and finds weight.	Weights Balance Measuring tapes Objects available in the classroom Postal stamps Objects available in the class	Interpretation and estimation of unit. Learns basic operation / computation for weight/distanc e. Measurement by using scale and other standard units.	17

Jan	MEASU REMEN T Length	Field and fences	 Understanding of concept of area and perimeter of simple geometrical figures. Ability to compute area and perimeter of regular and irregular shapes. Solving problems based on area and perimeter. 	 Measures the length and breadth of given figures and things and finds their area and perimeter. Determines length in cms, metres ,kms of simple figures. Determines area/perimeter using squares ,thread of simple geometrical ,symmetrical and unsymmetrical shapes Solves problems based on area and perimeter 	 Understands the meaning of Fields (area) and fences.(perimeter) Understands that the boundary (perimeter) is the sum of the sides of the given figure. Finds length of the boundary of things in class e.g Maths book, table desk using a scale. Calculates the total length of boundary of regular shapes like rectangle, 	Newspaper to collect data Graph Worksheets	Understands the regular and irregular shapes. Symmetrical and unsymmetrical shapes. Able to measure and calculate perimeter using various methiod.	10
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square triangle etc. Calculates the total length of the boundary of irregular shapes on a squared ruled paper using a thread. Comp ares using threads, graph paper ,counting squares. The areas and perimeter Finds the number
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Feb	DATA HANDLI NG	Smart Charts	 Collection of data and representatio n through pictographs Conclusion from data 	 Collect data and represent in the form of bar graphs. Draw inferences by discussing with the teacher Represent data graphically (bar graph, pie-charts) Collect/interpret data from newspaper and represent it in tabular form. Solve word problems 	 Colle cts and records Odata. Repre sents the data in tabular form or bar graph. Repre sents fractions through chapatti chart or pie chart. Draw s conclusion and inferences from the data. Solve s simple problems using charts/data 	Recognition Observation Classification Ability to read graphical representation and draw conclusion. Learns pictorial depiction of facts.	12+12

Bibliography

A few websites and books are under mentioned for further resources and references

Websites

- 1. www.songsforteaching.com
- 2. www.ix1.com
- 3. www.magicamethods.com
- 4. www.hobbycost.com
- 5. www.technology.com.crafts
- 6. www.vigyanprasar.com

Books

1. Low-cost, No-cost

Teaching Aids (Creative Learning Series) by Mary Aun Dasgupta (National Book Trust, India)

2. Hands-on

By Arvind Gupta (Vigyan Prasar)

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- 3. Low-cost, No-cost
 - Teaching Aids (Creative Learning Series) by Mary Aun Dasgupta (National Book Trust, India)
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 - By Arvind Gupta (Vigyan Prasar)
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