Annual Curriculum and Pedagogical Plan

Subject- Mathematics

Class- IV

Month	Unit	Topics Covered /	No. Of	Innovative	Learning	Assessment
		Sub topics	periods	Pedagogy	Outcomes /	tool
					SKILLS	
April	l	Number System - Natural and Whole numbers - 5 and 6 digit numbers - Place value and Face value. -Reading and writing large numbers. - Expanded form.	12	-Playing games on whole numbers. -Place value game using digit cards 0-9.	*Write 5 or 6-digits numbers in the Indian and the International Place Value System *Write the expanded form of numbers *Find	Weekly worksheet. MCQ related to the concepts. Mental maths related to concepts. Formative assessment. Diagnostic
		- Comparing and Ordering of numbers Framing Greatest/Smallest numbers. Successor and		-Maths kit (buttons, digit cards, ice-cream sticks number board)	Successor and Predecessor mentally. *Compare and order numbers. *Make large	Assessment. Summative assessment.
		Predecessor. - International system of numerations. - Estimation by rounding off nearest to tens, hundreds,		- Roman numerals chart using matchsticks.	numbers using the given digits. *Students will be able to compare Indian System of Numeration	

		thousands etc.		- Worksheet.	and	
		Roman Numerals.		vvoiksiieet.	International	
					System. * Will be	
		-Rules for forming			able to	
	2	Roman Numerals	5		estimate or	
		- Writing Roman			round off	
		Numerals for			numbers.	
		Hindu Arabic			numbers.	
		Numerals.			* Will able to	
					recognise	
		- Converting			number	
		numbers to			presented in	
		Roman numerals.			Roman	
					Numerals.	
					* Will able to	
					describe and	
					demonstrate	
					how to	
					convert	
					Roman	
					numerals.	
					SKILLS:	
					Quantitative	
					reasoning,	
					communicati	
					on.	
					*xx/!II . I. I) A/ I I
May	3	Addition	9		*Will able to add and sub	Weekly worksheet.
		1. Introduction to		- Addition	large	worksneet.
		Addition:		and	numbers.	MCQ related
		111		subtraction	mambers.	to the
		- Understanding		using	*Will able to	concepts.
		the concept of		concrete	verify	Marstal
		addition as combining two or		objects(icecr	answers of	Mental maths
		more quantities.		eam sticks	subtraction.	related to
		more quantities.		and dice)	*Develop	concepts.
		- Recognizing the			problem	сопсерсь.
		symbol '+' as the			solving skills.	Formative
				-Addition	20.11.15 31.113.	
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addition operator.	and	*apply their	assessment.
- Differentiating	subtraction	knowledge	Diagnostic
between addends	using	to solve	Diagnostic
	number	story sums	Assessment.
and sum	boards.	of addition	Summative
Addition with one,		and	assessment.
two, three digit		subtraction.	40000011101101
Numbers:	-Addition		Weekly
Numbers.	and	*apply their	worksheet
- Adding single-	subtraction	knowledge	
digit numbers		in real life	
mentally.	using Maths	situation of	
,	kit (Dice,	add and sub.	
-Regrouping or	number	0,411.5	
carrying over	board,	SKILLS:	
twice in multi-digit	icecream	Problem	
addition.	sticks,	solving,	
	buttons,	critical	
- Fill the missing	coins, digit	thinking	
numbers in	cards)		
addition.			
Dracticing			
- Practicing	-What		
addition through	makes10 ?		
statement sums			
and real-life			
scenarios.			
-Estimating sums	-Tic-Tac		
using compatible	toe.(Make		
numbers.	15 on adding		
numbers.	each side)		
- Rounding			
numbers to			
simplify addition	-Crack the		
calculations.	code.		
Subtraction			
- Introduction to	-Mental		
Subtraction:	maths of		
	addition and		
- Understanding	subtraction.		
the concept of	Jaba action.		
		l	

4	subtraction.	9		
	- Recognizing the symbol '-'. -Differentiating between minuend, subtrahend and difference. Subtraction of		-Framing sums using given questions of addition and subtraction.	
	one, two, three digit Numbers: - subtracting single-digit numbers mentally. -Subtraction with or without borrowing and verification of subtraction. - Fill the missing numbers in subtraction. - Statement sums of subtraction.		- worksneet.	

July	5	Multiplication	9	_	*Multiply	Weekly
		-		Multiplicatio	and Divide	worksheet.
		-Introduction of		n and	large	
		multiplication and		division	numbers.	MCQ related
		recognizing the		using digit		to the
		symbol ' × '		cards.	* Will able to	concepts.
		Multiplicand			verify	Montal
		-Multiplicand,			answers of	Mental
		Multiplier and			division.	maths
		Product.		- Naultiplicatio	* 54	related to
		-Properties of		Multiplicatio	* Multiply	concepts.
		multiplication.		n using	and Divide	Formative
		,		Lattice	by multiples	assessment.
		- Multiplication by		method.	of 10's,	
		10, 100, 1000 etc.			100's, and	Diagnostic
		Multiplication by			1000's	Assessment.
		- Multiplication by		-	mentally.	Company
		3 and 4 digits.		Multiplicatio	*Develop	Summative
		- Statement sums		n and	problem	assessment.
		of multiplication.		division	solving skills.	
				using maths	* Apply	
		Division		kit.(Digit	operations	
		-Introduction of		cards,numbe	· (+, -,X,÷) in	
	6	division and	9	r board, dice,	their day to	
		recognizing of	3	buttons,	day life.	
		symbol ÷		icecream	,	
		Syllibol +		sticks)		
		- Dividend,			SKILLS:	
		Divisor, Quotient			Problem	
		and Remainder.		-Making	solving,	
		District to		tables	critical	
		-Division by		patterns on	thinking.	
		10,100,1000 etc.		number		
		- Division by 2		board.		
		and 3 digit				
		numbers.				
		\/awifiaa4:f		-Making		
		- Verification of		_		
		division.		tables using seeds.		
		- Statement		seeus.		
		sums of division.				

		Simplification of all four basic operations(DMA S)		-Mental maths related to multiplicatio n and divisionFraming questions using given questions of multiplicatio n and division Worksheet.		
August	7	Factors and	14	-HCF and	*recognize	Weekly
		Multiples.		LCM using	and learn	worksheet.
		- Factors and its		icecream	factors and	MCQ related
		properties.		sticks and	multiples.	to the
				dice.	*understand the real life	concepts.
		- Multiples and its			applications	Montal
		properties.		-Activity	of factors	Mental maths
		- Various types of		using Maths	andmultiples	related to
		numbers. (odd,		kit.	. *find	concepts.
		even, consecutive,			common	
		consecutive odd,		(Dice,	factors and	Formative
		consecutive even,		buttons,	multiples of	assessment.
		prime and		icecream sticks,	two	Diagnostic
		composite numbers).		number	numbers.	Assessment.
		-Tests of		board, digit	* Solve divisibility of	Summative

		divicibility:		cords)	smaller	200000000000
		divisibility.		cards)	numbers	assessment.
		- To find all prime			mentally.	
		and composite			* Calculate	
		numbers between			HCF and LCM	
		1 to 100.			of 2 and 3	
					digit	
		- Prime			numbers	
		factorisation.			using Prime	
		- HCF AND LCM.			factorization	
					and Long	
		- Some facts about			division	
		HCF and LCM.			method.	
					metriou.	
		Fractions				
		-Introduction of				
		fraction, terms of				
		fraction.			*Understand	
		maction.	10		the different	
Septembe	8	-Types of fraction.	10	-	types of	
r				Representing Fraction	fractions	
		-Comparison of			Hactions	
		fraction.		using paper, Chalk and	*Write	
		-Ordering of like		other real	equivalent	
		fraction.		objects.	fractions	
				objects.	*Compare	
		-Addition,			fractions	
		subtraction of like			*Ordering of	
		fractions.			fraction.	
		-Statement sums			maction.	
		of fraction.			*Apply their	
				-Making	knowledge	
				fraction	in fractions	
				model.	to solve real	
					life	
					problems.	
				-Fraction	CKILL C:	
				game using	SKILLS:	
				_	Analytical	

			icecream sticks or	thinking , problem	
			buttons and	solving,Quan	
			dice.	titative	
				reasoning	
			-Fraction		
			song / poem.		
			301187 poetini		
			-Mental		
			maths		
			related to		
			fraction.		
			- Worksheet.		
9	Decimals	10	-Decimals	Student	Weekly
	-Introduction of		using Maths	learns to-	worksheet.
	decimal and		kit.	*Expand	MCQ related
	decimal place		(Icecream	Decimal	to the
	value chart.		sticks,	numbers	concepts.
			buttons,	*Convert	
	-Types of decimal.		dice, digit	Decimal	Mental maths
	-Convert unlike		cards)	*Add,	related to
	into like decimals.			Subtract	concepts.
	-Converting			Decimals.	
	Decimals into		-Use of	.	Formative
	fraction.		decimals	*Able to use decimal in	assessment.
			every day while dealing	decimal in day to day	Diagnostic
	-Addition,		with money,	life.	Assessment.
	subtraction of decimals.		weight,		Summative
	accimals.		length etc.		assessment.
	- Statement sums				
	of decimals.				
			-Mental		
			maths		
			related to		

				docimals		
				decimals.		
		Money				
		latar de ation of		N.4 a a	* Charles	
		-Introduction of		- Money	* Student	
October	10	money.	7	activity using	learns to	
		- Conversion of		fake notes	*Check Bills	
		rupees into paisa.		and coins.	for errors.	
		Tapeco mito paicar			*Prepare	
		- Conversion of			Correct Bills	
		paisa into rupees.		-Craft a	for the given	
				water bottle	Data.	
		-Unitary method.		piggy bank.	Data.	
		-Preparing bills.			* Read and	
		Treparing Sills.			Check Bills in	
				- Billing	their Daily	
				activity.	life.	
				activity.		
					*Students	
				_	will learn the	
				- Shop area	values and	
				activity.	names of	
					coins.	
					-Students	
				-Mental	will be able	
				maths		
				related to	to learn how	
				money.	to add and	
				,	subtract	
					money in	
					real world	
					situations.	
					-Students	
					will be able	
					to learn how	
					to make	
					change with	
					money.	
					SKILLS:	
					problem	

	11	Measurement - Measures of length, mass and capacity. - Conversion of units. - Addition, subtraction, multiplication and division of units. - Estimate measures units. - Statement sums	14	-Measure things in your bag using ruler. -Measure things around you using handspan, measuring tape, ruler etc	solving, critical thinking Student learns to *Convert Higher units into Lower units or vice versa. *Apply Different operations (+, -, X, ÷) on Metric measures. *Relate Standard	Weekly worksheet. MCQ related to the concepts. Mental maths related to concepts. Formative assessment. Diagnostic Assessment.
Neurombo		of length, mass and capacity measures. -Measure temperature. Measurement of Time -Time in hours, minutes and		Measuremen t activity using Maths kit.	wnit. * Apply Metric measures in their Day to Day life.	assessment. Weekly worksheet
Novembe	12	seconds	6	-Digital clock	will be able to tell (read)	

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parts.		Identify	related to
- Construction of	- Find and	different	concepts.
circle.	tell objects	types of	Formative
5 5.0.	around them	angles.	assessment.
- Angles and its	that makes	*Construct	assessifient.
types.	angles.	circle using	Diagnostic
	aligies.	Compass and	Assessment.
- Shapes (2D and	-Shapes	Ruler.	
3D shapes) and	activity.	*!=!=::::::::::::::::::::::::::::::::::	Summative
patterns.	,	*Identify	assessment.
	-Patterns	symmetrical	
	activity using	figures.	
	Maths kit	*Draw lines	
	(number	of symmetry	
	board,	*Identify and	
	icecream	continue	
	sticks,	patterns.	
	buttons,	patterns.	
	coins)	*Identify	
		patterns	
	-Menta	created by	
	maths	turns	
	regarding		
	patterns and	*Students	
	shapes.	will be able	
		to describe	
		and classify	
		the	
		properties	
		of, and	
		relationship	
		between	
		plane and	
		solid	
		geometric	
		figures.	
		SKILLS:	
		Creativity,	
		Observation	
 1	L		i

Perimeter -IntroductionArea and Perimeter of rectangle, square. Perbruary 16 Data Handling -IntroductionPictographBar-graphPie chart Perimeter -IntroductionPictographPie chart -Pictograph, -Pie chart -Pictograph, -Pie chart -IntroductionPictograph, -Pie chart -Pie chart -IntroductionPictograph, -Pie chart -Pie char	January	15	Area and	10	-Finding	*Recognise	Weekly
-IntroductionArea and Perimeter of rectangle, square. -Making net of cuboid. -Mental mathsWorksheet. -Worksheet. -Worksheet. - Worksheet. - Work							worksheet.
Area and Perimeter of rectangle, square. Perimeter of rectangle, square. Perimeter of rectangle, square. Perimeter of rectangle, square. Paking net of cuboid. Patie to apply their knowledge in real-life applications. Week work Pebruary Pebruary Pebruary Pebruary Pebruary Perimeter. Able to apply their knowledge in real-life applications. SkIILS: Observation and Regonition. Pictograph. Pictograph. Perictograph. Pie chart Pie chart Piraw a pictograph pie chart or Bar graph for the given information. Assessing around you. Maxima around you. Portuble to apply their form assess SkIILS: Observation and Regonition. Portugations. Portugation					area of the		MCQ related
Perimeter of rectangle, square. Perimeter of rectangle, square. - Making net of cube Making net of cuboid Mental maths Morksheet Morksheet Morksheet Morksheet Morksheet Morksheet Morksheet Morksheet Worksheet Making net calculate area, Mem of condaptive apply their knowledge in real-life applications Worksheet Worksheet Worksheet Making net calculate area, Mem of condaptive apply their casses Worksheet Making net calculate area, Mem of condaptive apply their casses Worksheet Making net calculate area, Mem of condaptive area, because area, mela area, because area, because area, mela area, because ar						*Use	to the
rectangle, square. - Making net of cube Making net of cuboid Able to con apply their knowledge in real-life applications. SkillLS: Observation and Regorition. - Worksheet Works					around you.	formulae to	concepts.
February 16 Data Handling 7 -Graphing. Student learns to *Read and understand Pictograph and Bar Graph and Pie Chart. *Draw a pictograph on pie chart or Bar graph for the given information. *Apply Bar graph in Sumr					of cube. - Making net of cuboid. - Mental maths.	calculate area, perimeter. * Able to apply their knowledge in real-life applications. SKILLS: Observation and	Mental maths related to concepts. Formative assessment. Diagnostic Assessment. Summative assessment. Weekly
-Introduction. -Pictograph. -Bar-graph. -Pie chart							worksheet
-IntroductionPictographBar-graphPie chart -Pie chart -P	February	16	Data Handling	7	-Graphing.	Student	Weekly
-Pictograph. -Bar-graph. -Pie chart -Pi			-Introduction.		- Worksheet.	*Read and	worksheet. MCQ related
-Pie chart -Pie chart -Pie chart *Draw a pictograph , pie chart or Bar graph for the given information. *Apply Bar Asses graph in			-Pictograph.				to the
-Pie chart Pie Chart. *Draw a pictograph, pie chart or Bar graph for the given information. *Apply Bar Asses graph in			-Bar-graph.			and Bar	concepts.
pictograph , pie chart or Bar graph for the given information. Port asset the given information. Apply Bar graph in Sumr			-Pie chart			· ·	Mental maths
Bar graph for the given information. Diagraph in Sumr							related to concepts.
*Apply Bar Asse. graph in						Bar graph for	Formative assessment.
graph in Sumr						information.	Diagnostic
						graph in their day to day life*	Assessment. Summative assessment.

		questions for	
		the given Bar	
		graph , Pie	
		chart and	
		pictograph.S	
		KILLS: power	
		of	
		imagination,	
		analytical	
		thinking	