

## MATHEMATICS

Month & No of periods	LESSON	COMPETENCY	ACTIVITIES	SUGGESTED RESOURCES
April & May (18)	Know about objects of different shapes	1. Know about objects of different shapes. FNC URC	1. Learn poems - (a) 1, 2, buckle my shoes ... (b) 1, 2, 3, 4, 5... (c) 1, 1, 1, one little baby ... (d) Two little hands go ... (e) Hum apne gudiya ko ginti sikhayenge ... 2. Colouring pictures in group. 3. Counting the objects like beads, chalks, leaves, pebbles, sticks etc. 4. Going to park, playground, toilet and visiting different rooms of the school in group. 5. Walk in a line to the assembly ground (Height wise). 6. Comparing objects - big- small, tall, short, fat-thin. 7. Film show. 8. Doing school readiness work book.	1. Balloons. 2. Chocolates. 3. Toys. 4. Beads, pebbles, sticks. 5. Colour chart, flowers of different colours, colour pencils. 6. C.D and computer. 7. PPT
June (06)	<b>Lesson - 1</b> Shapes & space (continued)	1. Understanding the basic concept.	1. Reading of the story "The Arab and the camel" by the teacher, stress on inside -out side. 2. Related stories on the concept of inside outside. 3. Concept of bigger - smaller, biggest - smallest, top - bottom, nearer - farther, nearest - farthest, on - under and above – below through class room situation 4. Game on Inside/ Outside.	1. Sticks, bottles, boxes, pencils, balls, bangles of different size. 2. Objects of different shapes different shapes.

<p>July (22) Cycle-1</p>	<p><b>Lesson - 1</b> Shapes &amp; space (continued)</p>	<p>1. Understanding the basic concept.</p>	<p>1. Collect locally available objects of different shapes like beads, matchsticks, marbles, bottle caps, empty match box, bangles etc.  2. Drop a pencil from a slanting book. The pencils rolls down.  3. A pencil box slides down from the box .  4. Pictures of shapes are given in the book. Colour them using crayons eg. circle - red / square - blue etc.</p> <p>1. Make a shape kit  2. Matching pictures of similar shapes  3. PPT on shapes and space .  4. Doing related. Work sheet</p>	<p>1. Sticks, bottles, boxes, pencils, balls, bangles of different size.  2. Objects of different shapes.</p>
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Month & No of periods	LESSON	COMPETENCY	ACTIVITIES	SUGGESTEDRESOURCES
August Cycle-2	<b>Lesson - 2</b> Numbers 1 - 9	UBC FNC (forming numbers correctly ) To understand the concept of zero.	<ol style="list-style-type: none"> <li>1. Collect pebbles ,sticks, leaves. Keep them in front and count loudly.</li> <li>2. Rhymes based on numbers - (a) 1, 2, buckle my shoes .. (b) 1, 2, 3, 4, 5, ...</li> <li>3. Dominoes cards with holes count the number of holes and tell the numbers .</li> <li>4. Show the children some fingers and ask them to count and them clapor or jump accordingly.</li> <li>5. Showing numbers and counting of numbers through PPT.</li> <li>6. Doing related work sheet .</li> <li>7. playing the game dog &amp; the bone.</li> </ol>	<ol style="list-style-type: none"> <li>1. Sticks, bottles, boxes, beads, bangles, cards, colour sketch pens, match sticks, ice-cream sticks.</li> <li>2. Dominees cards with holes.</li> </ol>
	<b>Lesson -3</b> Addition	UBC FNC Ability of Computation PSA To know the commutative aspects of addition.	<ol style="list-style-type: none"> <li>1. Poem on addition -one little parrot .....</li> <li>2. Counting of numbers by asking questions like -2 chalks and 3 chalks make how many ?</li> <li>3. Use 5 objects to represent numbers.</li> <li>4.use dominoes for addition .</li> <li>5.verbal problems on addition done mentally .</li> <li>6 . PPT on addition of numbers and pictures . <ol style="list-style-type: none"> <li>1. Related work sheet .</li> <li>2. Use bangles for addition.</li> <li>3. Add &amp; Match</li> <li>4. Find the missing numbers.</li> </ol> </li> </ol>	<ol style="list-style-type: none"> <li>1. Sticks, pebbles, beads, pencils, leaves.</li> <li>2. Abacus</li> <li>3. Computer</li> <li>4. Pictures.</li> </ol>

Sept. Cycle-3	<b>Lesson - 4 Subtraction</b>	UBC FNC AC PSA	<ol style="list-style-type: none"> <li>1. Collect the things from the surrounding like pebbles, leaves, sticks, seeds etc.</li> <li>2. Take out from the collection a certain number and find out the number left.</li> <li>3. Rhymes - 5 little ducks ...</li> <li>4. Use of 'more than' &amp; 'less than'.</li> <li>5. Using real object and pictures - verbal problems to be solved .</li> <li>6. write the missing numbers .</li> <li>7. PPT on subtraction .</li> <li>8. related work sheet .</li> </ol>	<ol style="list-style-type: none"> <li>1. Sticks, pebbles, beads, pencils.</li> <li>2. Flowers, leaves.</li> <li>3. Picture of balls, butterflies, mangoes.</li> <li>4. Number cards.</li> <li>5. Computer.</li> </ol>
October Cycle-4 (14)	<b>Lesson -5 Numbers from 10 - 20</b>	FNC UBC Understand zero as a number. Can read & write numeral for zero. Add & subtract upto 20.	<ol style="list-style-type: none"> <li>1. Picture representation to arrive at the next number for ex- <math>9 + 1 = 10</math>.</li> <li>2. Bringing out the place value but putting them in bundles of 10's and one - one <math>10 + 1 = 11</math>.</li> <li>3. Joining numbers to develop a picture puzzle.</li> <li>4. Use of before and after numbers.</li> <li>5. Addition &amp; subtraction using numbers below 20.</li> <li>6. Number names from 10 - 20.</li> <li>7. PPT on numbers from 10 - 20 .</li> <li>8. Related work sheet .</li> </ol>	<ol style="list-style-type: none"> <li>1. Sticks, pebbles, beads, pencils, Old bangles, old sketch, pens, ice-cream sticks.</li> <li>2. Number cards.</li> <li>3. Computer</li> <li>4. Abacus</li> </ol>

Month & No of periods	LESSON	COMPETENCY	ACTIVITIES	SUGGESTED RESOURCES
November (22)	Lesson – 6 Time	Understanding basic concept AC To understand the different periods of the day.	<ol style="list-style-type: none"> <li>1. Rhymes on daily routine.</li> <li>2. Prepares a chart on daily routine.</li> <li>3. Counting duration using a stone pendulum.</li> <li>4. Counting time taken for bringing an object from one place to another.</li> <li>5. Time duration school days.</li> </ol>	

	<b>Lesson - 7</b> Measurement	UBC AC Ordering objects according to length, weight. To compare between heavy & light object by direct handling	<ol style="list-style-type: none"> <li>1. Introducing longer- shorter.</li> <li>2. Measuring the length of table, length of room pencil, book by hand-span and feet.</li> <li>3. Ordering of object of different length and weight.</li> <li>4. PPT on measurement.</li> <li>5. related work sheet.</li> </ol>	<ol style="list-style-type: none"> <li>1. Sticks, pebbles, beads, pencils, leaves.</li> <li>2. Abacus</li> <li>3. Computer</li> <li>4. Pictures.</li> </ol>
	<b>Lesson -8</b> Number from 21 - 50	FNC UBC	<ol style="list-style-type: none"> <li>1. Flash card, objects and pictures are used to count and compare 21-50 .</li> <li>2. use of abacus to teach place value</li> <li>3. Writing missing numbers in grids.</li> <li>4. Number names up to 50 .</li> <li>5. Practise forward and backward counting.</li> <li>6. PPT on numbers from 21-50.</li> <li>7. Related work sheet.</li> </ol>	<ol style="list-style-type: none"> <li>1. Loose sticks &amp; bundle of 10 sticks.</li> <li>2. Beads &amp; Marbles.</li> <li>3. Ice cream sticks.</li> <li>4. Match sticks.</li> <li>5. Abacus</li> <li>6. Number Cards.</li> <li>7. Some objects and pictures.</li> <li>8. computer</li> </ol>
Dec. Cycle-6	<b>Lesson -9</b> Data handling	UBC PSA	<ol style="list-style-type: none"> <li>1. To count picture shown shapes.</li> <li>2. Counting the alphabet in their own names &amp; their friend's name.</li> <li>3. Stripes of papers given and children having the same colour and stripes grouped.</li> <li>4. To group the pencils of the same kind and find out which occur the most.</li> <li>5. Complete the pattern.</li> <li>6. PPT on data handling.</li> <li>7. Related work sheet.</li> </ol>	<ol style="list-style-type: none"> <li>1. Shape cards of circle, square, triangle &amp; rectangle.</li> <li>2. English alphabets (Letter cards)</li> <li>3. Number Cards.</li> <li>4. Picture with different shapes.</li> <li>5. Computer</li> </ol>

	<b>Lesson -10</b> Pattern	UBC PSA	<ol style="list-style-type: none"> <li>1. To the teacher should start the activity by Clapping In pattern</li> <li>2. To create different patterns by using different shapes.</li> <li>3. PPT on patterns.</li> <li>4. Related work sheet.</li> <li>5. Patterns using numbers.</li> </ol>	<ol style="list-style-type: none"> <li>1. Number patternson chart paper.</li> <li>2. Letter pattern onchart paper.</li> <li>3. Patterns in shapes.</li> <li>4. Pattern of differentfigures objects.</li> <li>5. Computer</li> </ol>
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Month & No of periods	LESSON	COMPETENCY	ACTIVITIES	SUGGESTEDRESOURCES
Jan. Cycle-7 (22)	<b>Lesson -11</b> Numbers 51 - 100	UBC FNC PSA AC Learn to form numbers till 100. To know the numericals & number names	<ol style="list-style-type: none"> <li>1. Picture representation to arrive at the next number <math>50 + 1 = 51</math>.</li> <li>2. Bringing out the place value using abacus.</li> <li>3. Missing number in grid..</li> <li>4. Snake and ladder games.</li> <li>5. Speaking of numbers from 1 - 100.</li> <li>6. Practice back wards counting form 100 - 1.</li> <li>7. PPT on numbers form 51 - 100.</li> <li>8. Related work sheet.</li> <li>9. Joining dots form 51-100.</li> <li>10. Before &amp; after numbers.</li> </ol>	<ol style="list-style-type: none"> <li>1. Sticks &amp; bundles of ten sticks.</li> <li>2. Match sticks &amp; ice cream sticks.</li> <li>3. Beads &amp; marbles.</li> <li>4. Abacus</li> <li>5. Number cards with number names.</li> <li>6. Some objects &amp; pictures.</li> <li>7. Computer</li> </ol>
Feb. Cycle – 8 (18)	<b>Lesson -12</b> Money	UBC AC PSA FNC	<ol style="list-style-type: none"> <li>1. Introduction coins and notes.</li> <li>2. Tracing coins.</li> <li>3. Specimens of coins and notes.</li> <li>4. Dramatization of shopping and conversation withthe shop keeper.</li> <li>5. Read price tag s to estimate the cost of item.</li> <li>6. To find the total value of collection.</li> <li>7. To make a given amount by using coins/notes ofdifferent denominations.</li> <li>8. Bill Making.</li> <li>9. Memory game.</li> <li>10. PPT on money.</li> <li>11 . Related work sheet.</li> </ol>	<ol style="list-style-type: none"> <li>1. Coins &amp; notes of different denominations.</li> <li>2. Some objects with price tags.</li> <li>3. Bills(Old)</li> <li>4. Old coins.</li> <li>5. Computer</li> </ol>

	<b>Lesson - 13</b> How many	FNC PSA	<ol style="list-style-type: none"> <li>1. forming numbers and numbers names through the picture.</li> <li>2. Compare given pictures and objects.</li> <li>3. Narrate a story based on picture.</li> <li>4. Make questions or word problem by using the word- how many?</li> <li>5. Related work sheet.</li> </ol>	<ol style="list-style-type: none"> <li>1. Sticks, beads, match sticks, picture cards.</li> <li>2. Number cards.</li> <li>3. Computer</li> </ol>
March			<b>REVISION</b>	