


VIDYA PRATISHTHAN'S DR. CYRUS POONAWALLA SCHOOL (CBSE), BARAMATI


ANNUAL CURRICULUM PLANNING, 2024-25

Class: IV

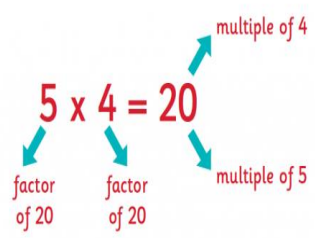

Mathematics

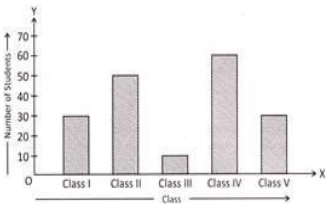
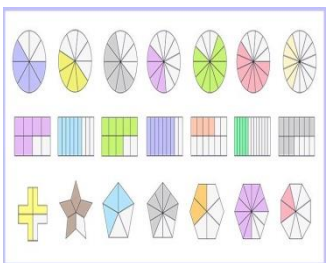
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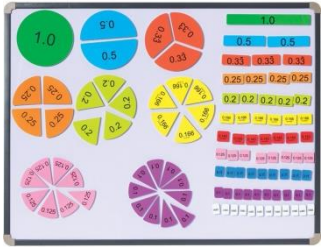
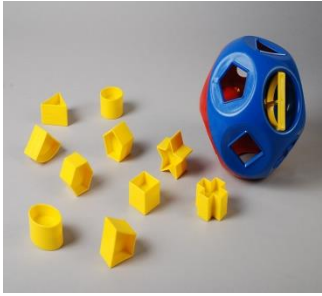
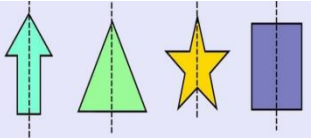
Sr. No.	Content/Topic	Month and Working Days	Learning Objectives	Expected Learning Outcomes	Activity	21st Century Skills	Teaching Aids	Assessment
	Bridge Course	April (19)	Recapitulation: Read & write 3 & 4 digit numbers, know the face value and place value of the numbers, Addition and Subtraction of 3 digit numbers, Simple Multiplication and Division of numbers.	Students are able to recapitulate. Students can read the numbers, add and subtract, multiply and divide 3 digit numbers.	Activity- To understand place value using abacus.	Problem Solving	Abacus, Place value chart	Worksheet.
1.	Large Numbers 	April (19)	1. Introducing 'Ten thousands' place value 2. Visualizing a large number and representing it. 3. Introducing 'Lakhs' place value. 4. Visualizing a large number and representing it. 5. To arrange the given large numbers in ascending & descending order. 6. Differentiate between Roman and Hindu-Arabic numerals. Convert Roman numbers into Hindu-Arabic	1. To read and write 5-digit numbers. To know face value & place value. 2. Represent 5-digit numbers on the Abacus. 3. To read and write 6-digit numbers. To know face value & place value. 4. Represent 5-digit numbers on the Abacus. 5. Reorder the number in ascending & descending order. 6. To identify the symbols used in Roman Numbers. To convert Roman numbers into Hindu-	Math Lab Manual Activity-1 To form the greatest and smallest numbers using a given set of digits.	Problem Solving	Abacus, Place value chart	Worksheet, Mental Math.

			numbers & vice-versa. 7. Applying concepts learnt in assessments	Arabic numbers & vice-versa. 7. Complete worksheets based on the chapter concepts.																												
2	<p>Addition and Subtraction</p> <p>5 Digit Addition</p> <p>35489 + 41578</p>  <table border="1" data-bbox="224 917 537 1189"> <thead> <tr> <th></th> <th>TTh</th> <th>Th</th> <th>H</th> <th>T</th> <th>O</th> </tr> </thead> <tbody> <tr> <td></td> <td>7</td> <td>6</td> <td>4</td> <td>3</td> <td>5</td> </tr> <tr> <td>-</td> <td>4</td> <td>5</td> <td>3</td> <td>2</td> <td>3</td> </tr> <tr> <td></td> <td>3</td> <td>1</td> <td>1</td> <td>1</td> <td>2</td> </tr> </tbody> </table>		TTh	Th	H	T	O		7	6	4	3	5	-	4	5	3	2	3		3	1	1	1	2	June (19)	<p>1. To add 5-digit and 6-digit numbers without regrouping</p> <p>2. To add 5-digit and 6-digit numbers with regrouping.</p> <p>3. Apply addition of large numbers to real-life situations.</p> <p>4. To learn the properties of addition.</p> <p>5. To subtract 5 & 6 digit numbers without regrouping.</p> <p>6. To subtract 5 & 6 digit numbers with regrouping.</p> <p>7. Apply subtraction of large numbers to real-life situations.</p> <p>8. To learn the properties of subtraction.</p>	<p>1. Perform addition of two 5-digit and 6-digit numbers without regrouping</p> <p>2. Perform addition of two 5-digit and 6-digit numbers with regrouping</p> <p>3. Solve word problems on addition of two 5-digit and 6-digit numbers.</p> <p>4. Understand and apply the properties of addition.</p> <p>5. Perform subtraction of two 5-digit and 6-digit numbers without regrouping</p> <p>6. Perform subtraction of two 5-digit and 6-digit numbers with regrouping</p> <p>7. Solve word problems on addition of two 5-digit and 6-digit numbers.</p> <p>8. Understand and apply the properties of subtraction.</p>	<p>Math Lab Manual Activity-2 To understand the concept of estimation through subtraction.</p> <p>Formation of 5-digit numbers</p> <p>Math Activity 1: To understand the concept of addition and subtraction of 5-digit and 6-digit numbers.</p>	Flexibility and Adaptability Collaboration	Cards of numbers, Blocks of ones, tens & hundreds	Worksheet, Add the following. Subtract the following.
	TTh	Th	H	T	O																											
	7	6	4	3	5																											
-	4	5	3	2	3																											
	3	1	1	1	2																											


			9. To solve problems involving both addition & subtraction.					
3	<p>Multiplication</p> $ \begin{array}{r} \text{H T O} \\ 304 \\ \times 125 \\ \hline 1520 \\ 6080 \\ + 3040 \\ \hline 38000 \end{array} $	July (22)	1. To understand and apply the properties of multiplication.	Students will be able to-	Math Lab Manual Activity -3 To find the product of two numbers by lattice method.	Initiative and Self- Direction	Multiplication table chart, marbles	Worksheet, Mental Math worksheet.
			2. To multiply a number by 100, 1000, 10,000. To perform smart multiplication.	1. Building multiplication tables.				
			3. To multiply numbers using grids.	2. Multiply 3-digit number by a 3- digit number.				
			4. To multiply a 4- digit number by a 1- digit & a 2- digit number.	3. Recognize that multiplication can be done in any order.				
			5. To solve word problems on multiplication of 3 & 4 – digit numbers.	4. Multiply numbers by power of 10 and their multiples.				
			6. To estimate the product of two 3- digit numbers to the nearest hundred.					
4	<p>Division</p> $ \begin{array}{r} 1317 \\ 5 \overline{) 6585} \\ - 5000 \\ \hline 1585 \\ - 1500 \\ \hline 85 \\ - 50 \\ \hline 35 \\ - 35 \\ \hline 0 \end{array} \quad \text{or,} \quad \begin{array}{r} 1317 \\ 5 \overline{) 6585} \\ - 5 \downarrow \\ \hline 15 \downarrow \\ - 15 \downarrow \\ \hline 08 \downarrow \\ - 5 \downarrow \\ \hline 35 \\ - 35 \\ \hline 0 \end{array} $	August (20)	1. To divide a 3-digit number by a 2-digit number by long division with remainder.	Students will be able to-	Math Activity 2: To understand equal sharing.	Critical Thinking	Different things i.e. pencil, sharpener to introduce the concept	Worksheet, Mental Math Worksheet.
			2. To divide a 4-digit number by a 1-digit number by long division.	1. Use repeated subtraction to solve division problem.				
			3. To divide a 4-digit number by a 2-digit	2. Apply the properties of division.				

			number by long division.					
			4. Solve word problems on division of 3-digit & 4-digit numbers.	3. Solve word problem related to division.				
			5. To divide a number by 100, 1000, 10,000.					
			6. To estimate the quotient of two numbers.					
5	<p>Factors and Multiples</p> 	August (20)	<p>1. To list the factors of a number.</p> <p>2. To draw the factor tree of a number.</p> <p>3. To find the common factor & the highest common factor of the given numbers.</p> <p>4. To understand facts about multiples.</p> <p>5. To find the common factor & the lowest common factor of the given numbers.</p> <p>6. To check divisibility of a number by 2, 5 & 10.</p>	<p>Students can-</p> <p>1. Find the factors & multiples of a number.</p> <p>2. Draw the factor tree of a given number.</p> <p>3. Write the common factors & common multiples of given numbers.</p> <p>4. Define even & odd numbers.</p> <p>5. Calculate HCF & LCF of given numbers.</p> <p>6. Apply divisibility rules of 2, 5 & 10</p>	<p>Math Lab Manual Activity-5</p> <p>To find the factors of a given number by pictorial representation.</p>	<p>Problem solving, Critical thinking.</p>	<p>Notebook & pencil</p>	<p>Worksheet Mental Math Worksheet.</p>
6	<p>Money</p> 	September (18)	<p>1. To add & subtract money.</p> <p>2. To multiply & divide money.</p>	<p>Students can-</p> <p>1. Perform addition, subtraction, multiplication & division of money.</p> <p>2. Create bills.</p>	<p>Math Lab Manual Activity-11</p> <p>To role play buying and selling.</p>	<p>Financial Literacy, Productivity & Accountability. Information literacy</p>	<p>Dummy currency notes, coins, bills, etc.</p>	<p>Convert the following.</p>

7	Data Handling 	September (18)	1. To interpret a bar graph.	Students will be able to-	Math Lab Manual Activity- 12 To learn to investigate, represent and analyze data. To draw a bar graph & pie chart	Information Literacy, Initiative & self-direction, Environmental literacy	Information chart, ruler, compass & notebook	Read the pictograph to answer the questions. Worksheet
			2. To draw a bar graph.	1. Create & interpret a bar graph.				
			3. To interpret a pie chart.	2. Illustrate data using pie chart.				
			4. To draw a pie chart.	3. Draw conclusions from bar graphs & pie charts.				
8	Fractions 	October (18)	1. To recognize simple fractions such as half, one-third, one-fourth, one-eighth.	Students can- 1. Describe the concepts half, one third and quarter by shading.	Math Lab Manual Activity-6 To understand equivalent fractions by paper folding.	Problem solving, Productivity & Accountability.	Paper cut-outs of circle & square, notebook, ruler, pencil	Worksheet Mental Math Worksheet.
			2. To find equivalent fractions. Reduce a fraction to its lowest terms.	2. Write equivalent fractions of a given fraction.				
			3. To understand like fractions. To compare & order like fractions.	3. Define like & unlike fractions.				
			4. To add & subtract like fractions.	Perform Addition & subtraction of like fractions.				
			5. To understand proper, improper & mixed fractions.	5. Define proper, improper & mixed fractions.				
			6. To convert mixed fraction into improper fractions & vice a versa.	6. Convert mixed fraction into improper fractions & vice a versa.				
			7. To represent a fraction on the number line.	7. Represent a fraction on the number line.				
9	Decimals	October (18)	1. To understand the place value chart of decimal numbers.	Students can- 1. Understand the place value chart of decimals.	Math Lab Manual Activity-7 To understand the concept of decimal	Information Literacy	Notebook, ruler, pencil.	Represent the fractions on a number line.
			2. To understand the concept of tenths,	2. Define tenths, hundreds & thousands.				

			hundreds & thousands.		representation.			
10.	<p>The World of Shapes</p> 	November (12)	<p>1. To measure & draw line segments.</p> <p>2. To distinguish between open & closed curve. To classify polygons</p> <p>3. To draw a circle & identify its centre, radius, diameter, chord, circumference.</p> <p>4. To identify the number of faces, edges & vertices of some 3D shapes.</p>	<p>Students can-</p> <p>1. Measure & draw line segments.</p> <p>2. Distinguish between open & closed curves. 3. Define polygon & its types. 4. Draw a circle using a pair of compass. Identify centre, radius, diameter, chord, circumference of a circle. 5. Classify 3D shapes. Construct nets of solid shapes.</p> <p>3. Use tan gram pieces to create different shapes.</p>	<p>Math Lab Manual Activity -8</p> <p>To study the part of a circle.</p>	Social & cross-cultural interaction, Art-Integrated learning, Experiential learning.	Different solid shapes such as cube, cuboid, cone, cylinder etc.	Draw solid shapes on isometric dotted paper. Use tangram pieces to create different shapes.
11.	<p>Pattern & Symmetry</p> 	November (12)	<p>1. To create patterns on addition, subtraction, multiplication & division of numbers</p> <p>2. To identify symmetrical figures & find the lines of symmetry of symmetrical</p>	<p>Students will be able to-</p> <p>1. Complete addition, subtraction, multiplication & division patterns in numbers.</p> <p>2. Identify symmetric figures & their lines of symmetry.</p>	<p>Math Lab Manual Activity -9</p> <p>To draw the lines of symmetry and mirror image.</p>	Problem solving, Critical thinking, Experiential learning, Art-Integrated learning	Notebook, Sheets of paper, pencil, ruler.	Draw the lines of symmetry, mirror images & tessellation

			figures.					
			3. To draw mirror image of simple figures.	3. Draw mirror image of simple figures.				
12.	<p>Metric Measures</p>	December (16)	<p>1. To understand the units of length, convert units of length from one unit to another unit.</p> <p>2. To add & subtract lengths.</p> <p>3. To understand the units of weight, convert units of weight from one unit to another unit.</p> <p>4. To add & subtract weight.</p> <p>5. To understand the units of capacity, convert units of capacity from one unit to another unit.</p> <p>6. To add & subtract capacity.</p>	<p>Students will be able to-</p> <p>1. Convert length, weight and capacity from one unit to another unit.</p> <p>2. Perform addition & subtraction on the measures of length, weight & capacity</p> <p>3. Solve word problems based on addition & subtraction of length, weight & capacity</p>	<p>Math Lab Manual Activity-10</p> <p>To estimate the length, weight and capacity of different objects and comparing it with real measurement.</p>	<p>Experiential learning, Problem solving, Initiative & Self-direction</p>	<p>Different measures of length, weight and capacity</p>	Worksheet
13.	<p>Perimeter & Area</p>	January (22)	<p>1. To explain the perimeter of a figure. Calculate the perimeter of rectangle, square, triangle & closed figures.</p> <p>2. To explain the area of a figure. Calculate the area of regular shapes & polygons.</p> <p>3. To calculate the area of irregular shapes</p>	<p>Students will be able to-</p> <p>1. Define perimeter & calculate the perimeter of rectangle, square, triangle & closed figures.</p> <p>2. Calculate the area of regular shapes</p> <p>3. Calculate the area of irregular shapes</p>	<p>Activity: To draw some regular & irregular shapes on a square paper grid and find their area & perimeter.</p>	<p>Problem solving, Critical thinking, Social & Cross-culture interaction, Art-Integrated learning</p>	<p>A square paper grid, pencil, a leaf, ruler, coloured pencils etc.</p>	Worksheet
14.	Time	February (18)	<p>1. To read time to the exact minute.</p> <p>2. To write time in 12 hour clock.</p>	<p>Students will be able to-</p> <p>1. Read time to the exact minute.</p> <p>2. Write dates in different ways.</p>	<p>Math Lab Manual Activity-</p> <p>i) To reinforce the concept of</p>	<p>Initiative & self-direction, Technology learning, Experiential</p>	<p>Clock, calendar, ICR</p>	<p>Make a timeline of some important events of our</p>

	 <p>The illustration is titled "Measurement of Time" and shows various time-related items: a round wall clock, a digital stopwatch, a red wristwatch, an hourglass, and a blue alarm clock.</p>		<p>3. To write time in 24 hour clock.</p> <p>4. To calculate time duration of an event.</p> <p>5. To compute the number of days between two given dates.</p> <p>6. To prepare a timeline.</p>	<p>3. Write time in 12-hour & 24-hour clock.</p> <p>4. Calculate time duration of an event.</p> <p>5. Calculate the number of days between two given dates.</p> <p>6. Make a timeline.</p>	<p>time. ii) To make model of a clock</p>	<p>learning, Creativity & Innovation.</p>		<p>freedom struggle.</p>
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