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

ANNUAL CURRICULUM PLANNING, 2022-23

Class :IV   Mathematics   Marks: 100

Sr. No.	Content/ Topic	Month & No.of Days	21st Century Skills	Learning Objectives	Expected Learning Outcome	Activity/ Practical	Teaching Aid	Assessment
	Bridge Course 1.Large Number	April(26)	Critical thinking Problem solving	To learn the following • To compare , form number. • To revise even odd numbers.	To understand the following • To compare and form numbers.	Use the given digits to form numbers.	Number cards	Worksheet
	Addition Subtraction	04	Problem solving Critical thinking	To learn the following • To learn addition facts, addition by expansion. • To learn subtraction , finding missing numbers.	To understand the following • To learn addition facts. • To learn Subtraction	Addition on abacus Subtraction with regrouping	Abacus, Blacks of ones, tens & hundreds	Worksheet
	Multiplication Division	04	Critical thinking	To learn the following • Multiply a 3-digit number by 1 & 2 digit number • Properties of multiplication. • Division facts.	To understand the following • Multiply by expanding the bigger numbers. • To understand division facts.	To learn multiplication with marbles / pebbles / blocks	Multiplication table chart marbles	Worksheet, Google form
	Geometry	02		To learn the following • To understand difference between plane and solid shapes. • Parts of circle	To understand the following • Identify different solid shapes. • Identify and define part of circle and find out the diameter given the	To make solid shapes.	Different 2-D shapes, solid (3D) shapes	Worksheet

2	Place Value	April(12)		Critical Thinking Creativity Experiential Learning	To learn the following • To read and write 5-digit & 6-digit numbers. • Represent numbers on an abacus. • Comparing Numbers, Forming Numbers • Rounding off Numbers • Roman Numbers	To understand the following • To read and write 5-digit & 6-digit numbers. • Represent numbers on an abacus. • Comparing Numbers, Forming Numbers • Rounding off Numbers • Roman Numbers	To form the greatest and the smallest numbers using a given set of numbers.	Abacus and Beads in 6-Columns	Worksheet from textbook.
3	Addition and Subtraction	June(14)		Critical Thinking Problem solving	To understand the following • Add and subtract 4-digit numbers • Properties of addition & subtraction. • Estimate the sum and difference of large numbers.	To learn the following • Add and subtract 4-digit numbers • Properties of addition & subtraction. • Estimate the sum and difference of large numbers.	Maths Lab Activity from textbook. To understand the concept of estimation through subtraction.	Strips of papers with 4-digit nos. written on them.	Exercises and worksheets from textbook.
4	Multiplication	June/July(20)		Critical Thinking Creativity	To learn the following concepts • Properties of multiplication • Multiplication by a 1-digit, 2-digit & 3-digit numbers. • Estimating the product.	To understand • Properties of multiplication • Multiplication by a 1-digit, 2-digit & 3-digit numbers. • Estimating the product.	To find the product of two numbers by lattice method.	Bits of paper and pencil.	Mental Maths and Worksheet from textbook
5	Division	July		Critical Thinking	To learn the concept of following • Division by a 1-	To learn the following concepts • Division by a 1-	To recall division facts	Paper and pencil.	Mental Maths and Worksheet

			Problem solving	digit divisor • Division facts • Division by 10,100,1000 • Properties of Division • Estimate quotient where a number is divided by another number.	digit divisor • Division facts • Division by 10,100,1000 • Properties of Division • Estimate quotient where a number is divided by another number.			from textbook.
6	Multiplies And Factors with HCF And LCM	July /August(21)	Critical Thinking Experiential Learning	To understand following • Multiplies and Factors • Properties of Multiplies and Factors. • Common Multiplies • Distinguish between prime & composite numbers • Find LCM & HCF	To learn the following concepts • Multiplies and Factors • Properties of Multiplies and Factors. • Common Multiplies • Distinguish between prime & composite numbers • Find LCM & HCF	To generate the multiples of 10 by multiplication and addition. To find the factors of number by pictorial representation.	Notebook, Pencil , crayons ,graph paper,scale.	Exercises and worksheet.
7	Fractions	August	Creativity Experiential Learning	To learn the following • Represent fraction on a number line. • Define like and unlike fractions. • Find equivalent fractions. • Recognize types of fractions: proper, improper, mixed • Add and subtract fractions.	To learn the following concepts • Represent fraction on a number line. • Define like and unlike fractions. • Find equivalent fractions. • Recognize types of fractions: proper, improper, mixed • Add and subtract fractions.	To understand equivalent fractions by paper folding	Pencil, Eraser, sketch pens , scissors	Worksheet, Mental Maths from textbook.

8	Decimals	August/September(10)	Creativity Experiential Learning	To understand the following • Understanding Decimals • Writing and reading decimals • Tenths, Hundredth, Thousandths • Decimal numbers in the place value chart • Convert fraction to decimal and vice-versa. • Expanded form of decimal, Equivalent decimals • Like & unlike, comparing and ordering • Addition & subtraction of decimals	To learn the following concepts • Understanding Decimals • Writing and reading decimals • Tenths, Hundredth, Thousandths • Decimal numbers in the place value chart • Convert fraction to decimal and vice-versa. • Expanded form of decimal, Equivalent decimals • Like & unlike, comparing and ordering • Addition & subtraction of Decimals.	To understand the concept of decimal representation.	Crayons , Pencil.	Check your Understanding from textbook.
9	Geometry	October(16)	Creativity Experiential Learning	To understand following • Point, line, line segment, ray. • Measuring and drawing line segment. • Angles and Types of Angles • Simple closed shapes. • Polygons • Circles and Drawing Circles.	To learn the following concepts • Point, line, line segment, ray. • Measuring and drawing line segment. • Angles and Types of Angles • Simple closed shapes. • Polygons • Circles and Drawing Circles.	To find the circumference of a circle. To study the parts of circle.	A bangle, a string, a ruler, a pen etc.	Exercises, Worksheet from textbook.
10	Symmetry And Patterns	October/November(26)	Experiential	To learn • Symmetry	To learn the following concepts	To draw the symmetrical	Pencil, pen, crayons	Exercises, Worksheet

			Learning Creativity	• Reflection • Patterns • Coding and decoding	• Symmetry • Reflection • Patterns • Coding and decoding	half of each shape. To draw the lines of symmetry and mirror image.	,rular.	from textbook.
11	Measurement	November/December(15)	Experient ial	To learn • Measurement of length, mass(weight), capacity • Addition and subtraction in measurement. • Multiplication and division in measurement.	To learn the following concepts • Measurement of length, mass(weight), capacity • Addition and subtraction in measurement. • Multiplication and division in measurement.	Arrange the following in decreasing order of their length. To estimate the length, weight and capacity of different objects and compare it with real measurement.	Pen, notebook A weighing machine, different type of measuring equipments	Story sum and exercises.
12	Perimeter And Area	December	Creativity Experient ial learning	To understand the following • Perimeter and area • Finding the area using half-squares.	To learn the following • Perimeter and area • Finding the area using half-squares.	To show that different shapes can have the same area.	Graph paper and a pencil.	Exercises and worksheet.
13	Time	January(20)	Critical Thinking Experienti al learning	To understand the following • Reading time to the exact minute a.m. & p.m. • 24- hour clock • Units & conversion of time. • Time duration in hours and minutes • Finding the	To learn the following concepts • Reading time to the exact minute a.m. & p.m. • 24- hour clock • Units & conversion of time. • Time duration in hours and minutes • Finding the	Draw the hands on a clock.	Pencil, notebook	Story sum fro textbook.

				finishing starting time • Duration of time in days.	finishing starting time • Duration of time in days.			
14	Money And Unitary Method	January/ February(24)	Critical Thinking	• Operations on money. • Unitary method	• Operations on money. • Unitary method	To learn how to make bills.	Pencil box, eraser, so on.	Story sums, worksheets
15	Data Handling	February	Creativity Experiential learning	To learn the following • Interpreting a pictograph • Bar graph • Drawing a bar graph. • Circle graph	To learn the following • Interpreting a pictograph • Bar graph • Drawing a bar graph. • Circle graph	Drawing a bar graph. To draw a pictograph.	Informative chart, Graph paper, pencil, scale etc.	Worksheet from textbook.