MAPPING OF GRADE 3 MATHEMATICS TOPICS WITH LEARNING OUTCOMES ADAPTED BY CBSE

Month/Chapter	Sub-topic	Learning Objectives	Methodology Learning Outcomes
Chapter 1: Where to Look From	Symmetry	Builds on a symmetrical geometric pattern using a dot grid	Acquires · Using understanding visual aids about like 2D pictures, shapes diagrams a) identifies · Use real and makes life 2D examples Shapes by to identify paper shapes folding· Use paper games cutting on and the puzzles dot like grid, Tangram using straight lines Math lab etc. activity: Draw b) the images on describe dot papers.s2D shapes Art Integrated by Activity: the Reflective number Symmetry of sides, corners and diagonals.
Chapter 2: Fun with Numbers	counting , numerals and number names	Numerals 100 -500: Counts (concretely, pictorially and symbolically) and recites number names	Works with three digit numbers a) reads and writes numbers up to · Use real life examples such as counting number of students

			on the class, 999 using

		Numerals 100-500: Identifies and write numerals/ number names	number of chairs etc · Provide practice place value b) compares numbers up to

		Numerals 501 - 999: Counts (pictorially and symbolically) and recites number names	problems · Reinforce the concept learned by having students explain their reasoning and understanding in class discussion s, group activities and Games Math lab activity: a) To convert the expanded form of a number into its usual form	999 for their value based on their place value c) solves simple daily life problems using addition and subtraction of three digit numbers with and without regrouping, sums not exceeding 999 d) construct s and

			b) To form two digit number from any two digit and to compare them Art Integrated Activity: decorate the numbers with elements that correspond to their mathematical properties	uses the multiplication facts (tables) of 2, 3, 4, 5 and 10 in daily life situation e) analyses

		Numerals 501-999: Identifies and write numerals/ number names	(likeevenor oddnumbers, prime numbers, etc)	and applies an appropriate number

			operation in the situation/ contextf) explains the meaning of division facts by equal grouping /sharing and finds it by repeated subtraction.
	Forward and backward counting	Numbers 100-500: Completes number sequences by counting forward and backwards without skips	
		Numbers 501-999: Complete number sequences by counting forward and backwards without skips	

	Forward, back ward and skipcounting	Numbers 100-500: Complete number sequences with	

		skip counts forward and backward in 2s, 4s, 5s, 10s and 50s	Workswith three-digitnumbers a)reads and writes numbers upto 999 using place valueb) compare
		Numbers 501-999: Complete number sequences with skip counts forward and backward in 2s, 4s, 5s, 10s and 50s	
	Shortform and expanded form	Composes and decomposes numbers into hundreds, tens and ones (concrete, pictorial, numerical)	

	comparison	Numerals (100-999): Compares groups and numbers using< and> symbols	snumbersup to 999 for their value based on their

	Ascending and descending order	Numerals (100-999): Sequences numbers in increasing or decreasing order	placevalue c)solves simple daily life problems using addition and subtractionof three-digitnumbers with and without regrouping, sums not exceeding999 d) constructs and uses the multiplicationfacts (tables) of2, 3, 4, 5 and 10 in daily life situation e) analyses and applies an appropriate number operation in the situation/ context f) explains

			the meaning of division facts by

			equal grouping /sharing and finds it by repeated subtraction.
Chapter 3: Give and Take (sum up to 999)	Addition of 3-digit numbers without regrouping Word problems of addition	Adds 3-digit numbers in vertical algorithm without regrouping (sum not exceeding 999) (pictorially and numerically) Solves one step real life problems involving addition of 3-digit numbers with and without regrouping (sum not exceeding 999)	· Students are first introduced to the concept of addition through the use of physical objects such as counting blocks or beads. They will learn to	Works with three digit numbers a) reads and writes numbers up to 999 using place value b) compares numbers up to 999

			count and group objects together to find the total amount. · Students will then learn the traditional method of vertical	for their value based on their place value c) solves simple daily life problems using addition

	Additionof3-digit numbers with regrouping	Adds3-digit numbers in vertical algorithm with regrouping (sumnot exceeding 999) (numerically)	addition. They will learn to add numbers by aligning them vertically and	and subtractionof three digitnumbers with and without regrouping, sums not

			adding the digits in each place	exceeding999

			value column. · Students will be given word problems that require them to add two or more numbers together. They will learn to read the problem, identify the numbers to be added, and apply the addition method	d) constructs and uses the multiplication facts (tables) of 2, 3, 4, 5 and 10 in daily life situation e) analyses and applies an appropriate number operation in the situation / conte

			they have learned to find the Solution.

Math lab activity: a) To represent the pair of numbers on straight lines, using stickers. Also find the greater number from the representation

Art Integrated Activity:
. | xt

f) explains the meaning of division facts by equal grouping /sharing and finds it by repeated subtraction. |

			design a colorful seesaw or balance scale where student could draw or paste images of objects representing numbers being added or subtracted, showcasing the concept of balancing equations visually

Chapter 4: Long and Short	Measurement of length using standard unit	With the understanding of standard measure of 'centimeter', uses a ruler to measure length of familiar Objects in cm	Introducing the concept of length and how it can be measured using different units such as cm, m, km, etc
			Estimates and measures length and distance using standard units like centimeters or meters and identifies relationships
		With the understanding of the standard measure of 'meter' , uses a measuring tape to measure	Explain difference between short and long objects like comparing pencils, hair, ropes, etc
			Demonstrate

			the process of measurement using ruler or measuring tape

		lengthof familiar Objects in meters	Math lab activity: measure the length of different objects by using scale
	Estimation and comparison of lengths	Estimates, and compares Lengths of Objects in cms and meters (Concrete and pictorial) Chooses and uses appropriate standard unit (between centimeter and meter) to measure different lengths/heights	Art Integrated Activity: collect pictures from magazines or draw their own images showcasing items of varying lengths.

Estimates
and
compares

linear and non-linear paths in standard units and understands the concept of shortest distance between two points

Appreciates that the

		length of objects remains the same when moved (Length Conservation) using standard units.	

Chapter 5: Shapes and Designs	2-D shapes Drawing shapes Patterns Symmetry 3-D shapes Sorting shapes	Identifies repeated units in a geometric pattern and explain features of the unit (i.e. curved, straight line etc.)	Recalling the concept of 2-D shapes Clay modeling activity Discussing real life examples of shapes and designs such as shape of a clock, design of a flower, shape of a football Solving puzzles and conducting quiz	Acquires understanding about 2D shapes a) identifies and makes 2D Shapes by paper folding , paper cutting on the dot grid, using straight lines etc
		Identifies the base tile making patterns and completes the pattern Leaving no gaps		
			Math lab activity: a) To count and record the number of edges and corners	b) describes 2D shapes by the number of

			obtainedafter foldinga rectangular paperfrom eachcorner onebyone. b) To make a tangram and to form different shape using its pieces Art Integrated Activity: Students will study about monasteries of manipur	sides, corners and diagonals.

			and draw two sketches of monasteries of Manipur on A4 size sheets. They will be able to learn about the different geometrical figures used in Manipur monasteries.

Chapter 6: Fun with Addition and	subtraction Completes number	sequence s with Introducing concept of	addition and subtraction and Extends patterns	in

Give and Take	Addition and subtraction facts	skip counts forward and backward in 2s, 4s, 5s, 10s and 50s (3 digit numbers)	their real life applications	simple shapes
	Addition and subtraction of 3- digit numbers		Discussing the facts about addition and subtraction	
	Word problems		Addition tree activity to demonstrate addition and	Works with three digit numbers
		Subtracts 3- digit numbers in vertical algorithm with regrouping (pictorially and numerically)	Subtraction	a) reads and writes numbers up to 999 using place value b) compares numbers up
			Math lab activity: To add and subtract two, three digit number with carrying	
			Art Integrated Activity: students can	
		Solves the problems in the real life context involving subtraction of 3- digit numbers with and without regrouping	(where difference is unknown)	and subtraction to check draw situations involving sharing items, adding objects to give more, or taking away from a group to represent subtraction. to
			Recognizes and use the inverse relationship between addition	

		999 for their value based on their place value c) solves	simple daily life problems using addition and subtraction of three	digit numbers with and without regrouping , sums not exceedin
		calculations and solve missing number problems.		g999d) construct sand uses the multiplica tionfacts (tables) of2, 3, 4, 5 and 10 in daily life situation e) analyses and applies an appropri ate number operati on in the situation / contex t f) explains the meaning of division facts by equal grouping /sharing and finds it by repeated subtraction.

Chapter 7: Time Goes On...	Reading a clock face Hours and minutes	Answers questions and infers information from a calendar on months,	Begin by introducing the concept of time to the students Use visual aids like posters or a wall clock to	Identifies a particular day and date on a calendar
	Writing time AM and PM Days of the	their duration, days of the week	**help students understand how the hand move around the clock face**	
	week **Months of the year** **Calendar** **Word problems**		**Demonstrate how to tell time** Math lab activity: To understand the importance of time and planning Art Integrated Activity: students draw or paste pictures indicating various activities or events that happen throughout the day, marking them at specific times on the	Read the time on a clock to the hour and Half hour through understanding the role of the hour hand and minute hand.

		timeline. Reads the time correctly	to the hour	using a clock /watch

		Draw minute and hour hand in a clock to represent a given time (in hours and half-hour units only)	
Chapter 8: Who is Heavier?	Weight and balance Units of weight Estimating weight Addition and subtraction of weight	With the understanding of standard measure of 'kilogram', uses a weighing scale to measure Weight of familiar	Introducing weight and balance, and their significance in our daily life Demonstrating the concept of weight using different instruments	Weighs objects using standard units– grams and kilograms usingsimple balance

Objects to nearest kilogram
Explain addition and subtraction of weight by column method

Math lab activity:

Measure and estimate liquid volumes and masses of objects using standard units of grams (g), kilograms (kg), and liters

		Estimates and verifies weights of everyday objects(less than, equal to, or greater than 1kg)	(I).using beakers and measuring scale Art Integrated Activity: create a collage or drawing comparing the weights of different objects or animals
		Compares weights of different Objects in standard units (nearest kilogram)	
		Solves simple addition and subtraction problems on weight involving standard units (kilograms and grams)	Adds and subtracts measures involving grams & kilograms in life situations
Chapter 9: How Many Times? (with 1- and 2-digit numbers)	Repeated addition Multiplication Tables from 2 to 15 Word problems	Demonstrate multiplication as repeated addition	Introducing the concept of multiplication and relating to repeated addition Using visual
			Works with three digit numbers a) reads and writes numbers up to

			aids like pictures, charts, and manipulatives	999 using place value b)

			to help students

		Represents multiplication in number statement	understand the concept	compares numbers up to 999
		Applies multiplication of one digit number in day to day life.	Providing the examples of real life situations where multiplication can be used such as counting number of books on a	for their value based on their place value c) solves simple daily life
		Constructs tables of 5 and 10		
		Constructs tables of 2 and 3		

		Constructs tables of 4 and 7	shelf or number of chairs in a classroom	problems using addition and subtraction of three digit numbers with and without regrouping, sums not exceeding 999
		Constructs tables of 9	Conducting quizzes, providing worksheets	
		Recalls and uses multiplication tables to solve simple problems	Math lab activity: a) To find the multiples of number 2,3,4,5......9 b) To do multiplication of number using concrete objects c) To visualize and understand multiplication tables	d) constructs and uses the multiplication facts (tables) of 2, 3, 4, 5 and 10 in daily life
			Art Integrated Activity:	

		Completesa seque nce by application of multiplication tables	Tomake Multiplication flowersfor tables	situation e) analyses and applies an appropri ate number operati on
		Determines multiplicati on number		

	Numeric Patterns Geometric patterns Decoding messages using patterns	families (up to 4 instances)		in the situation/ contex tf) explains the meaning of division
		Multiply 2-digitnumbers with1 digit numbers		

Chapter 10: Play with Patterns	Rules of patterns	Multiply 2-digit numbers with 2 digit numbers		facts by equal grouping /sharing and finds it by repeated subtraction.
		Identifies the rule in a growing number sequence and extends them	Introducing the concept of patterns by showing students patterns that they can see in their environment	Extends patterns in simple shapes
			Using manipulatives	

		Identifies repeating unit in a geometric patterns and complete the same	such as blocks, shapes, and puzzles	
			Conducting Quizzes	
		Identifies rules in growing patterns and complete the same	Math lab activity: a) To identify a number as an even number or an odd number by making pairs of beads/ pebbles/count ers	

		Decodes verbal messages involving	b) To explore even and odd numbers in a playful manner

		patterns of alphabets and numerals	Art Integrated Activity: Skip Counting using hand prints.

Chapter 11: Jugs and Mugs	Measuring capacity Standard units of measuring capacity Comparing capacities Conversion of units Word problems	With the understanding of the standard measure of 'liter' , and uses a 1- litre unit to measure the capacity of familiar Objects to nearest liters Estimates, verifies and compares capacities of everyday Objects by using 1 liter as standard (concrete)	Asking students if they have ever seen or used jugs and mugs Discuss different types of jugs and mugs they have seen, their shapes, and sizes Demonstrate how to fill a jug with water and	Works with three digit numbers a) reads and writes numbers up to 999 using place value b) compares numbers up to 999 for their

		Appreciates the principl e of volume conservation (liquids)	how to pour water into a mug	value based on their place value c) solves
		Solves simple addition and subtraction based real life	Use visual aids such as pictures, diagrams, or videos to reinforce the concept of jugs and mugs Math lab activity: Measure and estimate liquid volumes and masses of objects using standard units of grams (g), kilograms (kg), and liters (l).using beakers and measuring	simple daily life problems using addition and subtraction of three digit numbers with and without regrouping, sums not exceeding 999 d) construct s and uses the multiplica tion facts

			scale

		problems on capacity involving standard units (liter)	Art Integrated Activity: students designand decoratetheir ownpaperor cardboard jugsand mugs measureand comparethe capacitiesof theircreations byfillingthem withwater

			(tables) of2, 3, 4, 5 and 10 in daily life situation e) analyses and applies an appropriate number operation in the situation / context f) explains the meaning of division facts by equal

			grouping /sharing and finds it by repeated subtraction.
Chapter 12: Can We Share? (with 1- and 2- digit numbers)	Division Division with and without remainder Division as repeated subtraction	Explains division as "sharing equally" Expresses division as a statement.	Ask students to bring some chickpeas and tell them to divide in groups to introduce the	Works with three digit numbers a) reads and writes numbers up to 999

			concept of division using place

	Relation between multiplication and division	Solves simple real life problems involving	value b) compare s numbers up to 999
			Long division method with and without remainder Discussing division as

division (without remainder) (2 digit number)	Recognizes and uses the relationship between multiplication and division to check calculation s	repeated Subtraction Math lab activity: To understand division by grouping Art Integrated Activity: create a poster or a collage showing different ways division is used in everyday life, like sharing snacks among friends, dividing a pizza etc for their value based on their place value c) solves simple

		daily life problems using addition and subtraction of three digit numbers with	and without regrouping, sums not exceeding 999 d) construct s and uses	the multiplica tion facts (tables) of 2, 3, 4, 5 and

		Identify Missing number in a division statement	10 in daily life situation e) analyses and applies an appropri ate number operati on in the situation / contex t f) explains

				the meaning of division facts by equal grouping /sharing and finds it by repeated subtraction.
Chapter 13: Smart Charts	Tally charts Reading pictograph Creating table with tally marks and pictograph Reading bar graph	Records data using tally charts and numerals in tables and answers simple questions based on the information Recognize patterns in recorded data, draws inferences and classifies data based on their frequency	Introducing the tally marks table and pictograph Discussing how to create tally table and Pictograph Math lab activity: To collect, display and interpret data Art Integrated Activity: students can choose a topic, such as their favorite colors, fruits, or hobbies, and collect data from their classmates. Then, they	Records data using tally marks, represents pictorially and draws conclusions.

			can design and illustrate a colorful

		Represents data visually (pictographs and bar charts) and	chart or graph using drawings, stickers, or cut-outs to represent the collected data.

		draws inferences	
Chapter 14: Rupees and Paisa	Money Addition and subtraction of money Word problems	Solves simple 2 digit addition and subtraction real life problems involving money	Demonstrate the use of money by showing different Makes rate charts and simple

		Solves 2-step addition and subtraction problems involving money in a practical context, including giving change	denominations of coins and notes Role play activity:divide the class into groups and assign them role of buyers and sellers Applying the concept of money in real life Situations Math lab activity: To learn number operation in a known context Art Integrated Activity: To make a bill	bills Adds and subtracts measures involving grams & kilograms in life situations