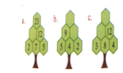
NAME OF THE DEPARTMENT -_MATHEMATICS_ SYLLABUS BREAK UP 2021-22 -AJI

Name of the Subject Teacher:- Mrs. Rashi A. **Grade:- 2**

MONTH	WEEK	Unit/Section	No of Periods	Topic Break Down / for Periods/Learning objectives / progression	Learning Outcomes/ Skills acquired	Activities (Formative assessment tasks, projects, Visits) INCLUDING VIRTUAL LEARNING	Teaching Aids / Reference/ Resources	Competencies and Values	MY IDENTITY	Cross curricular link	Art Integration	Critical thinking questions objective	Critical thinking questions subjective
April	4	Chapter 1 & 5 - Numbers up to 1000	6	Number Names, Skip Counting.	a. Model, read and write 3-digit numbers using numerals and words. b. Identify that the position of a digit gives it its value. c. Identify the place value and face value of each digit in a four digit number.	a. Bingo Game, Use of straw in order ot form number to match its number name. b. What did Afreen miss? Red and white clay dough activity. Use of Hundreds Chart	Laptop, Desktop, Task sheets, PPT, MS Quiz for Assignments	Problem solving Independent Learning	Numbers in Arabic	English - includes reading and writing numbers,	Mosaic - Create a tile mosaic using rectangular arrays of up to 999.	.I am a two digit number and I am less than 60. My two digits are equal. If you add my two numbers you will get the smallest two digit number	Help Sara to count the hundreds, tens and ones and write the number and number name
			6	Even and Odd Numbers, Compare.	a. To realize the need for sustainable development resources b. Demonstrate understanding of the concepts of odd and even. c. Reinforce the understanding of the concept of odd and even numbers. d. Compare numbers using the greater than, less than, and equal symbols. e. Create a statement involving comparing two 2 and 3 digit	a. Human figure cut outs to understand the concept of ordinal numbers, Comparing the concept of greater and smaller using students of different height., Buddy Pair b. Can we pair up game? Use of Ice cream sticks to form odd and even numbers.	Laptop, Desktop, Task sheets, PPT, MS Quiz for Assignments	Problem solving Independent Learning	Numbers in Arabic	English - includes reading and writing numbers,	Mosaic - Create a tile mosaic using rectangular arrays of up to 999.	1.I am a 3-digit number. I am an odd number. All my digits are the same. The sum of my digits is 27. And the number is___ 2. I am a 3-digit number .I have 5 in my tens place. The other two digits are 2 and 7.Iam an even number. And the number is	Raman's building is 5 floors high. All even numbered floors have two flats. All odd numbered floors have 3 flats. How many flats are there in Raman's building?
			6	Order the numbers, Ordinal Numbers	a. Order given numbers from smallest to largest. b. Apply knowledge to order whole numbers by Identifying the place value of a digit in a whole number. c. Identify the given Ordinal Numerals	Project - Find out year of your birth of your all family members, list it down Arrange all the numbers in descending order.	Laptop, Desktop, Task sheets, PPT, MS Quiz for Assignments	Problem solving Independent Learning	Numbers in Arabic	English - includes reading and writing numbers,	Mosaic - Create a tile mosaic using rectangular arrays of up to 999.	In the school skating competition,Aman was 4 positions behind Rohit.Rohit,Rohit stood 3rd in the race.What was Aman's position?	Write the position of letters in the words: M in MOHIT,H- in RADHA,A-in POORNIMA
			6	Forming 2 and 3 digit numbers.	a. To form 2 and 3 - digit numbers	Project - Use of Abacus - Place value. Number cards	Laptop, Desktop, Task sheets, PPT, MS Quiz for Assignments	Problem solving Independent Learning	Numbers in Arabic	English - includes reading and writing numbers,	Mosaic - Create a tile mosaic using rectangular arrays of up to 999.	Raju is a reader. He reads one page daily. Now he is reading page 101 of a book. Which page did he read 3 days back?	Four tortoises Ta-140,Tu-121,To-138 Ti-112.Who is the oldest tortoise and who is the youngest?
May	4	Chapter 2 & 6 - Addition	6	Terms used in addition, Addition of Three or more 2 - digit numbers	a. To elicit the meaning of addend. b. Add two or three 2 - digit numbers without a carryover. c.Add two or three 2 - digit numbers with a carryover	a. Objects, 2 digit number cards, Story sums Flash Cards b. Use Of Abacus for adding, Adding using number line	Laptop, Desktop, Task sheets, PPT, MS Quiz for Assignments	Critical thinking, problem solving, decision making, logical thinking, comparing and reasoning	Situation sum on shopping in Alain Mall	Addition problems with real life situations	Scooping Up – Using cone and scoops of ice cream students can show different examples of addition.	I have___books. My friend has _____books. We have 12 books in all.	Each number is the sum of the two numbers below it. Write the missing numbers for each of the trees here 
			6	Regrouping of numbers, Addition of 2 - digit numbers using regrouping.	a.To understand the concept of regrouping. b. To regroup the numbers as instructed. c. To apply the knowledge of regrouping and solve the sum.	a. Use of Blocks and cubes for regrouping.	Laptop, Desktop, Task sheets, PPT, MS Quiz for Assignments	Critical thinking, problem solving, decision making, logical thinking, comparing and reasoning	Situation sum on shopping in Alain Mall	Addition problems with real life situations	Scooping Up – Using cone and scoops of ice cream students can show different examples of addition.	I have ___ stamps. My friend has____ stamps. My friend has 10 more stamps than me.	Add 23 and 37 by regrouping the tens and ones. _____tens+_____ones=_____
			6	Addition of 3 digit number, Addition of three 3 - digit numbers with regrouping.	a.To understand the concept of regrouping. b. To regroup the numbers as instructed. c. To apply the knowledge of regrouping and solve the sum.	a. Use of Blocks and cubes for regrouping.	Laptop, Desktop, Task sheets, PPT, MS Quiz for Assignments	Critical thinking, problem solving, decision making, logical thinking, comparing and reasoning	Situation sum on shopping in Alain Mall	Addition problems with real life situations	Scooping Up – Using cone and scoops of ice cream students can show different examples of addition.	What number should be added to 900 to get the smallest four digit number?	You have two dice. The combination of 3 on one dice and 6 on the other dice gives 9.9>8.Find two more combinations with total of more than 8
			6	Application in Real Life - Addition Story	a.Apply addition of four digit numbers in story problems. b. Apply a mental mathematics strategy for adding two 2-digit numerals	The students will work on problems in pairs as well as on their own .They will then check each other's work and make sure they came up with the same answer.	Laptop, Desktop, Task sheets, PPT, MS Quiz for Assignments	Critical thinking, problem solving, decision making, logical thinking, comparing and reasoning	Situation sum on shopping in Alain Mall	Addition problems with real life situations	Scooping Up – Using cone and scoops of ice cream students can show different examples of addition.	20 bananas is him. How many bananas does Rahul have now? Do you need to add or subtract to solve this word problem? i Add ii. Subtract Tick the correct answer. i.44 ii.34	A school library has 14 mathematics books. The number of English books is 18 more than the mathematics books and the number of Hindi books is 15 more than the English books. What is the total number of books in the library?
June	4	Chapter 3 & 6- Subtraction	6	Terms used in subtraction, Subtraction of 2-digit numbers without regrouping	To identify, explain and exemplify the terms used in subtraction, To subtract two 2 digit numbers without regrouping.	Identify the key terms like minuend, subtrahend, & difference in the given subtraction sentences. Arrange the numbers in colunmns to subtract the numbers. Subtracting the numbers without regrouping	Laptop, Desktop, Task sheets, PPT, MS Quiz for Assignments	Critical thinking, problem solving, decision making, logical thinking, comparing and reasoning	To perform calculations in AED	Subtraction problems with real life situations	Falling into Subtraction Tree – Students need to solve each sum on the leaf of the subtraction tree.	A number-_____=the previous number	Reena has 359 marbles and Fatima has 539 marbles whose marbles are more in number and by how much?
			6	Subtraction of two 2-digit numbers ,Subtraction of a 2 digit number from a 3-digit number, subtraction of two 3-digit numbers (using regrouping)	To subtract the 2-digit & 3-digit numbers using regrouping(borrowing) method.	Explain the steps of regrouping to subtract the numbers.Workout the given problems using regrouping(borrowing) method.	Laptop, Desktop, Task sheets, PPT, MS Quiz for Assignments	Critical thinking, problem solving, decision making, logical thinking, comparing and reasoning	To perform calculations in AED	Subtraction problems with real life situations	Falling into Subtraction Tree – Students need to solve each sum on the leaf of the subtraction tree.	What should be subtracted from 100 to get the greatest two digit number?	There are 709 chairs in a hall. There are 900 people in the hall. How many people do not have chairs to sit?
			6	Checking subtraction using addition, Finding the missing addends and subtrahends	To check subtraction calculations using addition.To effectively apply the knowledge of addition & subtraction to find the missing addend =s & subtrahends.	To check the given subtraction calculations using addition. Finding the missing addends & subtrahends to complete the given addition & subtraction sentences.	Laptop, Desktop, Task sheets, PPT, MS Quiz for Assignments	Critical thinking, problem solving, decision making, logical thinking, comparing and reasoning	To perform calculations in AED	Subtraction problems with real life situations	Falling into Subtraction Tree – Students need to solve each sum on the leaf of the subtraction tree.	If 645+339+126=1110,then 1110-339=___+126	Some frogs were sitting outside a pond.17 frogs jumped in the pond.14 were left outside the pond. How many frogs were outside the pond in the beginning?
			6	Subtraction using a number grid, Subtraction stories.	To solve the story problems based on subtraction using CUBES strategy	Students apply their knowledge of subtraction & key terms used in subtraction to solve the story problems using CUBES strategy.	Laptop, Desktop, Task sheets, PPT, MS Quiz for Assignments	Critical thinking, problem solving, decision making, logical thinking, comparing and reasoning	To perform calculations in AED	Subtraction problems with real life situations	Falling into Subtraction Tree – Students need to solve each sum on the leaf of the subtraction tree.	Grown up people have 32 teeth. Mona is in class 2.She has only 20 teeth. How many more teeth will she get when she grows up?	431 passengers boarded a metro train. At the first stop 110 passengers got off the train and 216 passengers got off at the second stops. How many passengers are on the train now?
July					SUMMER VACATION								
August													
September	4	Shapes and Patterns	6	Flat Shapes, Lines, Line Segment, Ray	a. To identify circles, squares, rectangles, and triangles. b. To locate examples of circles, squares, rectangles, and triangles in the world around them. c. To compare various types of shapes. d. To identify the type of line. e. To draw and compare the type of line. f. To distinguish between lines	Four Corner Game, Flat shapes, Hands on Experience, Game	Laptop, Desktop, Task sheets, PPT, MS Quiz for Assignments	Critical thinking, problem solving, decision making, logical thinking, comparing and reasoning	In UAE generally which type of flat shape can you observe the most? Why do you think so?	1. Observe the carom board and its coins. If you stack the carom coins, what shape will you create? 2. Where can you find these lines in UAE?	Pattern Block Plates – Students use different sizes and shapes for creating pattern plate	If all the four sides of a rectangular door are reshaped to have equal sides, then it was become a _____	To make four triangles from a square, we need to draw: a)2 standing lines b)2 slanting lines c)2 sleeping lines
			6	Solid Shapes, Shapes That Roll Or Slide, Patterns With Shapes, Numbers and alpohabets.	a. To identify shapes. b. To build 3D shapes, c. To describe shapes with a partner. d. To classify the 3 D shapes into roll, stack, slide. e. To identify what a pattern is. f.To predict what should come next in pattern. g. To create an shape , numbers and alphabets pattern	A game : https://www.education.com/game/make-your-own-pattern/ , Create a worksheet of pattern of their own	Laptop, Desktop, Task sheets, PPT, MS Quiz for Assignments	Critical thinking, problem solving, decision making, logical thinking, comparing and reasoning	Can you find out any pattern that you see in UAE	Application based problems	Pattern Block Plates – Students use different sizes and shapes for creating pattern plate	1.If a cuboid is reshaped to have all the sides equal and all its faces square in shape, then it will become a _____ 2. A solid having _____ surface rolls 3. The next term of the pattern A1,C3,E5 ___	1.I am a number. If you score me in your test,your mother will be very upset. I look like plane figure of sphere. Which number am I? 2.Guess my shape. I look like an arrow head 3. Help Rhea to complete the series _____,300,285,270,255
			6	Terms used in multiplication, Multiplication by skip counting.	To identify, explain and exemplify the terms used in multiplication, To find the products by skip counting	Students use skip counting to find the products.	Laptop, Desktop, Task sheets, PPT, MS Quiz for Assignments	Critical thinking, problem solving, decision making, logical thinking, comparing and reasoning	Arabic word for multiplication	Multiplication problems with real life situations	**Spirolaterals – Helps students to learn the tables.**	I have two numbers. Their product is 32.Their difference is 4.What are the numbers	A room is decorated with 12 bunches of balloon. Each bunch has 2 balloons. How many balloons are there in total ?Find the answer and label the terms

		Chapter - Multiplication	6	Multiplication as repeated addition	To understand that multiplication is repeated addition.	Students represent the given repeated addition sentences as multiplication. Expand a=the given multiplication sentences as repeated addition.	Laptop, Desktop, Task sheets, PPT, MS Quiz for Assignments	Critical thinking, problem solving, decision making, logical thinking, comparing and reasoning	Arabic word for multiplication	Multiplication problems with real life situations	**Spirolaterals – Helps students to learn the tables.**	We are two one-digit numbers. Our product is a 2-digit number. The sum of the digits of the product is 6.One of us is also 6.Which two numbers are we?	Rajan wants to make 8 packets of 6 sweets each as return gifts on his birthday. How many sweets will he need? Write the repeated addition form and find the multiplication facts
			6	Multiplication of a 2 – digit number by a 1 – digit number with and without regrouping. Multiplication of a 3 – digit number by a 1 –digit number with and without regrouping.	To multiply 2 digit & 3 digit numbers with a 1 digit number.	Students explain & follow the steps of multiplying the numbers with & without regrouoping to find the products of the given multiplication problems.	Laptop, Desktop, Task sheets, PPT, MS Quiz for Assignments	Critical thinking, problem solving, decision making, logical thinking, comparing and reasoning	Arabic word for multiplication	Multiplication problems with real life situations	**Spirolaterals – Helps students to learn the tables.**	The product of two numbers is 10.One of the numbers is the smallest even number. What are the numbers?	Help Rhea to solve the puzzle.
			6	Multiplication Facts, Multiplication Stories	To write the facts of multiplication.To solve the story problems based on subtraction using CUBES strategy	Students write the multiplication facts for the given multiplication sentences.Students apply their knowledge of multiplication & key terms used in multiplication to solve the story problems using CUBES strategy.	Laptop, Desktop, Task sheets, PPT, MS Quiz for Assignments	Critical thinking, problem solving, decision making, logical thinking, comparing and reasoning	Arabic word for multiplication	Multiplication problems with real life situations	**Spirolaterals – Helps students to learn the tables.**	10x4=____x5=_____	There are 7 ants surrounding a piece of sweet on the floor. How many legs do they have altogether?
October	4	Division	6	Equal Sharing and Equal Grouping , Division As Repeated Subtraction ,	1. To group equally / share equally resources provided. 2. To define division as equal sharing / grouping. 3. To identify the dividend, divisor and quotient. 4. To interpret the number sentence for the situation provided. 1. To distribute the pebbles equally. 2. To explain that division is repeated subtraction	Hands On Experience , Game	Laptop, Desktop, Task sheets, PPT, MS Quiz for Assignments	Critical thinking, problem solving, decision making, logical thinking, comparing and reasoning	Arabic word for division	Division problems with real life situations	Division Man – Anchor chart to show steps needed in long division.		
			6	Division On Number Line , Division and Multiplication Facts,	To solve division sums on number line. 2. To solve and write the division sentence for the sum given. 1. To divide the object equally. 2. To comprehend the distribution as division sentence. 3. To conclude as division is related to multiplication. 4. To solve sums related to division facts. 5. To relate division and multiplication.	Hands On Experience , Game	Laptop, Desktop, Task sheets, PPT, MS Quiz for Assignments	Critical thinking, problem solving, decision making, logical thinking, comparing and reasoning	Arabic word for division	Division problems with real life situations	Division Man – Anchor chart to show steps needed in long division.		
			6	Long Division	1. To arrange the counters on the grid. 2. To identify the dividend, divisor, quotient and remainder. 3. To create bracelet in order to interpret long division. 4. To solve sums on long division.	Hands On Experience , Game	Laptop, Desktop, Task sheets, PPT, MS Quiz for Assignments	Critical thinking, problem solving, decision making, logical thinking, comparing and reasoning	Arabic word for division	Division problems with real life situations	Division Man – Anchor chart to show steps needed in long division.		
			6	Stories Based On Division	1. To discuss where is division used in daily life. 2. To illustrate the steps required to solve the story problems. 3. To solve the story problems given.	Hands On Experience , Game	Laptop, Desktop, Task sheets, PPT, MS Quiz for Assignments	Critical thinking, problem solving, decision making, logical thinking, comparing and reasoning	Arabic word for division	Division problems with real life situations	Division Man – Anchor chart to show steps needed in long division.		
November	4	Fractions	6	Terms In Fractions , One Half Fraction,	2. To identify the components used in fractions. 3. To define numerator 4. To define denominator 5. To identify as half 1. To identify as half 2. To divide the pizza equally among the group 3. To complete the activity	Flower Fraction Game, Number Strips, Pizza Activity,	Laptop, Desktop, Task sheets, PPT, MS Quiz for Assignments	Critical thinking, problem solving, decision making, logical thinking, comparing and reasoning	Arabic word for fraction	Fraction problems with real life situations	Create a piece of art & craft using the mentioned halves, quarters of specific shapes.		
			6	One Third Fraction, One Fourth Fraction, Revsion Of all fractins together	1. To identify as one third 2. To complete the activity 1. To identify one fourth 2. To complete the activity 1. To identify all fractions 2. To complete the activity	Snowman Activity, Sundae Activty	Laptop, Desktop, Task sheets, PPT, MS Quiz for Assignments	Critical thinking, problem solving, decision making, logical thinking, comparing and reasoning	Arabic word for fraction	Fraction problems with real life situations	Create a piece of art & craft using the mentioned halves, quarters of specific shapes.		
December	3	Time & Calendar	6	Reading and Writing Time Reading Time to Half Past The Hour	1. To identify the placement of numerals and hands on an analog clock. 2. To distinguish between the two types of clocks.1. To explain the term half past. 2. To read half past. 3. To demonstrate half past	Game, Hands On experience - Making Clocks	Laptop, Desktop, Task sheets, PPT, MS Quiz for Assignments	Critical thinking, problem solving, decision making, logical thinking, comparing and reasoning	UAE National Day is celebrated on which day/	English: Spelling & meaning of the key terms	Making a creative craft work to represent a clock and use it to practice pointing time on a handmade clock.		
				Reading Time to Quarter Past the Hour and Quarter to the Hou A.M. and P.M.	1. To explain the term quarter past. 2. To explain the term quarter to hour. 3. To distinguish between the quarter to and quarter past. 1. To identify time duration and A.M. / P.M. 2. To explain the gap between an events which occurs. 3. To create a schedule.	Game, Hands On experience - Making Clocks	Laptop, Desktop, Task sheets, PPT, MS Quiz for Assignments	Critical thinking, problem solving, decision making, logical thinking, comparing and reasoning	UAE National Day is celebrated on which day/	English: Spelling & meaning of the key terms			
			6	Days of the Week Months of a Year Seasons	1. To identify the days of the week and explain. 2. To elicit the relation between seconds and minutes. 3. To elicit the relation between minutes and hours. 4. To elicit the relation between hours and days. 5. To elicit the relation between days and weeks. 6. To elicit the relation between weeks and year.1. To identify the months of the year. 2. To create Calendar.1. To identify the seasons	Calendar making	Laptop, Desktop, Task sheets, PPT, MS Quiz for Assignments	Critical thinking, problem solving, decision making, logical thinking, comparing and reasoning	UAE National Day is celebrated on which day/	English: Spelling & meaning of the key terms			
January	4	Money	6	Reading and Writing Money (UAE)	1. To read money as dhiram and fils. 2. To write as instructed. 3. To distinguish between UAE currency and Indian Currency.	Picture samples of indian & UAE currency	Laptop, Desktop, Task sheets, PPT, MS Quiz for Assignments	Critical thinking, problem solving, decision making, logical thinking, comparing and reasoning	Dealing with UAE Currency	Arabic word for money	Create a currency poster-showing different currency notes and coins of India & UAE		
			6	Conversion Of Money	1. To convert paise into rupee 2. To convert fils into dhirams	Hands On experience	Laptop, Desktop, Task sheets, PPT, MS Quiz for Assignments	Critical thinking, problem solving, decision making, logical thinking, comparing and reasoning	Dealing with UAE Currency	Arabic word for money			
			6	Operations with money	To apply the rule of addition and subtraction.	Story sums	Laptop, Desktop, Task sheets, PPT, MS Quiz for Assignments	Critical thinking, problem solving, decision making, logical thinking, comparing and reasoning	Dealing with UAE Currency	Arabic word for money			
			6	Interpretation Of Pictorial Data	1. To interpret pictorial data into number sentence	Pictograph Chart Making	Laptop, Desktop, Task sheets, PPT, MS Quiz for Assignments	Critical thinking, problem solving, decision making, logical thinking, comparing and reasoning	Recording everyday temperature for a week in Al Ain and present it using bar graph.	Arabic word for data			

February	4	Data Handling	6	Analyse Pictorial Data	1. To analyse the data. 2. To interpret the result.	Pictograph Chart Making	Laptop, Desktop, Task sheets, PPT, MS Quiz for Assignments	Critical thinking, problem solving, decision making, logical thinking, comparing and reasoning	Recording everyday temperature for a week in Al Ain and present it using bar graph.	Arabic word for data	Creating a class birthdays bar graph poster where students stick a self-portrait above their birthday month.		
			6	Represent Pictorial Data	• 1. To list the data. 2. To identify the data and the pictures for the data given . 3. To represent the data in pictorial way.	Pictograph Chart Making	Laptop, Desktop, Task sheets, PPT, MS Quiz for Assignments	Critical thinking, problem solving, decision making, logical thinking, comparing and reasoning	Recording everyday temperature for a week in Al Ain and present it using bar graph.	Arabic word for data			
March													