GR-1 MATH SYLLABUS BREAK UP 2021-2022

MATH

MONTH	WEEK	Unit/Sectiom	Period	Topic Break Down / for Periods/Learning objectives / progression	Learning Outcomes/ Skills acquired	MS Teams Virtual Learning Activities	Teaching Aids / Reference/ Resources	Competencies and Values	Application and relevance of this lesson to: Real life situations / Other subjects	MY IDENTITY	CROSS CURRICULAR lINK	Art Integration	Critical Thinking Questions-Objective	Critical Thinking Questions -Subjective
APRIL& May	6	CH-1 NUMBERS UPTO 20	6	Numbers & Number Names (1-20)	• To read and write the numbers 1-20. • To count the objects and write the numbers from 1-20 • To associate the numbers with their values. • To understand the concept of zero.	Draw the number of objects for the given numbers and vice versa.	Laptop/Desktop, Task Sheets through assignments, PowerPoint Presentations, Videos, MS Forms for Assessment	Digital competence, Self confidence,Care, honesty	Write the number and the number name of the members in your family.	Number & Number Name of emirates in UAE	Science: Write the number and the number name of sense organs.English: Write the rhyming words for the given number namesEnglish: Number of tens and ones in the number of English Alphabet	• Make an alligator mouth craft/draw pictures to show the usage of greater than & less than signs. • Draw pictures of objects smallest to greatest to depict the concept of ascending order. • Make a poster of members of your family in descending order (eldest to youngest).	• While counting backward,____ comes after 10. • Which number comes before 19 and after 17? • Which of the following statements are true? A) 5 > 7 b) 12<15 c) 13 < 18	• Harsh's roll number is greater than 15 but less than 18. What is his roll number, if it is not 17? • If the given numbers are arranged in ascending order, which will be the last number in the sequence? 43, 25, 76, 12, 10 • Aditi is standing in a queue before Shyam and Mona. Shyam is standing after Mona. Write their correct order.
			6	Ones and Tens	• To interpret the number 10 as tens and ones. • To regroup the numbers 11 to 20 as tens and ones. • To represent the numbers on abacus as tens and ones up to 20.	• Represent the given numbers on the abacus. • Interpret & write the number represented on the abacus.	Laptop/Desktop, Task Sheets through assignments, PowerPoint Presentations, Videos, MS Forms for Assessment	Digital competence, Self confidence,Care, honesty	Can group the things as tens and ones	To deal with UAE currency 1 dirham coins and tens note				
			3	Count forward and backward	• To count the numbers forward and backward up to 20	Fill in the missing numbers by counting forward and backward.	Laptop/Desktop, Task Sheets through assignments, PowerPoint Presentations, Videos, MS Forms for Assessment	Digital competence, Self confidence,Care, honesty	Develop understanding of opposite words, can draw conclusions for simple situations by counting forward & backward					
			3	Before, after & in between	• To identify the order of numbers & write a number that comes after, before, and between.	Arrange the numbers on a number line & refer it to fill the blanks with what comes before, after & in between	Laptop/Desktop, Task Sheets through assignments, PowerPoint Presentations, Videos, MS Forms for Assessment	Digital competence, Self confidence,Care, honesty	Apply the concept of before, after & between to simple everyday situations that they come across everyday. Example: What comes	Full form of UAE- United Arab Emirates. Which word is before, after & in between.				
			6	Comparing numbers(<, >, =)	• To know & identify the >, < & = signs • To compare the numbers as greater than, less than or equal using >,< & = signs • To identify the greatest and the smallest numbers from the given set of numbers.	• Count & compare, compare the given numbers and write the suitable sign. • Write the suitable number on either sides of the specific sign. • Draw the number of objects for the given set of numbers and identify which is the biggest or smallest among them.	Laptop/Desktop, Task Sheets through assignments, PowerPoint Presentations, Videos, MS Forms for Assessment	Digital competence, Self confidence,Care, honesty	Can Compare and analyze situations or things based on size, shape, quantity etc	Which is the largest emirate? Which is the smallest emirate?				
			6	Ordering numbers	• To comprehend the concept of ascending order and apply the same to arrange the numbers in ascending order. • To identify the given number sequences as ascending or descending order	• Arrange the given numbers in ascending & descending order. • Identify the given number sequences as ascending or descending order. • To evaluate the given ascending & descending order sequences.	Laptop/Desktop, Task Sheets through assignments, PowerPoint Presentations, Videos, MS Forms for Assessment	Digital competence, Self confidence,Care, honesty	Draw the members of your family in Descending order.	Famous Tall Buildings of UAE in terms of height				
May & June	3	CH-2 ADDITION UPTO 20	6	• Picture addition • Addition of 0 to a number • Addition of one to a number • Addition on a number line	• Understand the term 'addition' as putting together. • Perform addition by counting the objects. • Identify plus as symbol of addition. • Use plus and (equal to) to form addition number sentence. • To understand the addition of a number with zero gives the same number. • To understand the addition of a number with one gives the number that comes just after it. • Perform addition on number line by forward counting.	• Count and find the sum, Write the addition number sentence for the given pictures. • Problems on addition with zero • Problems on addition with one. • Add using number line.	Laptop/Desktop, Task Sheets through assignments, PowerPoint Presentations, Videos, MS Forms for Assessment	Digital competence, Self confidence,Care, honesty	Sum of different things, objects	To add and perform calculations in AED	Science: To frame an addition sentence which gives the sum as number of sense organs.	• Make lady bug craft with appropriate number of black spots to show an addition sentence that gives the sum 9. • Draw a flower/make a flower craft with different addition sentence on each petal that gives the same sum.	• How will you get a number that comes just after 9? a)by adding 1 b) by adding 2 c) by adding 0 • I am 3 more than 5 who am I? • Write True/False. a) 7 + 0 = 3 + 3 b) 8 + 1 = 0 + 9 • 2 + ____ = 2 • 6 + 4 is same as 4 + ____ • If 5 + 3 = 8, then 5 + 4 = ____.	• The sum of 2 numbers is 6. If one number is 4, what is the other number? • If you have 4 candies, how many more do you need to make them 7? • Can you think of 2 different pairs of addends which give the sum 8.
			6	• Addition by forward counting • Addition of numbers using abacus • Turnaround Facts of addition	• To add the numbers horizontally by counting forward. • To add numbers using abacus. • To understand the concept of order of addends in addition.	• Add the numbers by counting forward • Add the numbers on the abacus • Find the sum of the given addition number sentences and write their turn around facts.	Laptop/Desktop, Task Sheets through assignments, PowerPoint Presentations, Videos, MS Forms for Assessment	Digital competence, Self confidence,Care, honesty	Sum of different things, objects	To add and perform calculations in AED				
			6	• Vertical Addition • Addition families • Adding three 1-digit numbers	• To add the numbers vertically using place values. • To understand the concept of addition families. • To add three 1-digit numbers.	• Vertical Addition • Creating addition families by writing all possible addition sentences to get the same sum. • Adding the given three numbers	Laptop/Desktop, Task Sheets through assignments, PowerPoint Presentations, Videos, MS Forms for Assessment	Digital competence, Self confidence,Care, honesty	Sum of different things, objects	To add and perform calculations in AED				
June	3	CH-3 SUBTRACTION UPTO 20	6	• Subtraction with pictures/objects •Subtraction With 0 • Subtraction with 1 and the number itself • Subtraction on a number line	• To understand the term 'subtraction' as taking away. • To perform subtraction by counting the objects. • To identify minus as symbol of subtraction. • To use minus and (equal to) to form subtraction number sentence. • To subtract with zero, one and itself. • To solve the subtraction problems with fluency. • Perform subtraction on number line by backward counting.	Find the difference and write the subtraction number sentences for the given pictures. Problems on subtraction with zero, one and itself. subtract using number line.	Laptop/Desktop, Task Sheets through assignments, PowerPoint Presentations, Videos, MS Forms for Assessment	Digital competence, Self confidence,Care, honesty	Find the difference whenever needed by applying the knowledge of subtraction	To subtract and perform calculations in AED	English: Frame a subtraction sentence to show the difference between total number of letters and vowels to get the difference as number of consonants.	Draw a flower/make a flower craft with different subtraction sentence on each petal that gives the same difference.	• When we subtract a number from itself, we get ____ • 10 - 5 = 7 - ____ • ____ - ____ = 5	• I am 5 less than 15. Who am I? _____ • Ria had 9 candies. After eating few candies she has only 5 candies left with her. How many candies did she eat? • Subtract 5 from the smallest 2-digit number. What will you get?
			6	• Subtraction by counting backward • Subtraction of numbers using abacus • Subtraction Facts	• To subtract the numbers horizontally by counting backward. • To perform subtraction using abacus • To create subtraction facts from the given addition facts.	Subtract the numbers by counting backward Subtraction on abacus Write the subtraction facts for the given addition facts	Laptop/Desktop, Task Sheets through assignments, PowerPoint Presentations, Videos, MS Forms for Assessment	Digital competence, Self confidence,Care, honesty	Find the difference whenever needed by applying the knowledge of subtraction	To subtract and perform calculations in AED				
			6	• Vertical Subtraction • Subtraction families	• To write the subtraction families for the given numbers • To subtract the numbers vertically by counting backward.	• Vertical Subtraction • Creating subtraction families by writing all possible subtraction sentences to get the same difference		Digital competence, Self confidence,Care, honesty	Find the difference whenever needed by applying the knowledge of subtraction	To subtract and perform calculations in AED				

Month	Week	Chapter	Periods	Topics	Learning Objectives	Assessment	Resources	Skills	Real Life Connection	UAE Connect	Cross Curricular	Project/Activity	HOTS	Application
September	3	CH-4 Space, Shapes and Patterns	6	• Spatial Concepts • Types Of Lines • Plane figures(shapes)	• To recall the spatial concepts- inside, outside & above, below. • To recognize & identify the spatial concept: near, far, top & bottom. • To recall, identify & recognize standing line, sleeping line, slanting line & curved line • To understand the difference between straight & curved lines. • To draw standing line, sleeping line, slanting line & curved line • To identify specific shapes- Circle, square, rectangle, triangle. • To discover how the shapes are formed and number of corners & sides in each shape	• Identify the positions of different objects placed in front of them or the position of the objects in the given picture. • Trace and draw the lines • Trace and draw the shapes and write their characteristics.	Laptop/Desktop, Task Sheets through assignments, PowerPoint Presentations, Videos, MS Forms for Assessment	Digital competence, Self confidence,Care, honesty	Identify the shapes of real life objects with which they come across in day to day life	What is the shape of UAE flag? How many rectangles are there in UAE flag?	English: Which letters of English Alphabet are made up of a) straight lines b) curved line c) both curved & straight lines.	Create a poster/scene/design using 2D shapes	• I am an English alphabet with 1 curved line. Who am I?	• Zia is decorating his square shaped bedroom. He wants to keep a flower vase in all the corners of the room. How many flower vases will he need?
			6	• Plane figures(shapes) Solid figures	To identify specific shapes- oval, diamond, hexagon & pentagon. • To discover how the shapes are formed and number of corners & sides in each shape• To identify & name solid shapes- Cube, cuboid. • To recognize & identify shapes in the environment" • To recognize shapes in the environment.	• Find the number of circles, squares, rectangles, triangles present in the picture, Shape • Identify & name the solid shapes. • Name or draw an object for the given solid shape.	Laptop/Desktop, Task Sheets through assignments, PowerPoint Presentations, Videos, MS Forms for Assessment	Digital competence, Self confidence,Care, honesty	Identify the shapes of real life objects with which they come across in day to day life					
			6	• Solid figures Patterns	• To identify & name solid shapes- Cone, sphere, cylinder • To recognize & identify shapes in the environment" • To recognize shapes in the environment. • To observe and recognize the patterns. • To create and extend repeating patterns.		Laptop/Desktop, Task Sheets through assignments, PowerPoint Presentations, Videos, MS Forms for Assessment	Digital competence, Self confidence,Care, honesty	Identify the patterns on various things around them like clothes, bedsheets, curtains, etc….				•	
September & October	3	CH-5 NUMBERS UPTO 100	6	• Numbers & Number names up to 100 • Ones and Tens • Count forward and backward	• To write the numbers up to 100. • To identify, read, write and spell the number names up to 100 • To understand the numbers as tens and ones up to 100. • To count the numbers forward and backward up to 100	Count & write the numbers up to 100 Write the number names for the given numbers Represent the given numbers as tens and ones Fill in the missing numbers by counting forward and backward.	Laptop/Desktop, Task Sheets through assignments, PowerPoint Presentations, Videos, MS Forms for Assessment	Digital competence, Self confidence,Care, honesty		If your father gave you 4 notes of 10 dirham and mother gave you 6 coins of 1 dirham . How many dirhams will you have in all?	Dubai metro holds a world record of longest metro system. The temperature here is always maintained at 20 degrees celsius. Can you write the numbers of tens and ones in number 20? Science: Total no. of fingers is 10. total no. of toes is 10. 2 tens are equal to_____	Abacus Craft: Create an abacus with thermacol and barbeques sticks and buttons or pompoms can be used as beads to practice representing the numbers as tens and ones. Represent any 2-digit number as tens and ones. Example: 27 can be presented as two groups of 10 which can be made using bindis/buttons together in a packet or outlined with a square/circle and 7 ones which can be represented separately as ones next to the 2 groups of 10	• The before number is always_____ the given number. a. 1 more than b. 1 less than c. equal to • How many numbers are there between 32 and 39? • How many tens are there in number 8?	• Which number is formed with 3 at ones place and 7 at tens place? • I have 3 in tens place, add 5 to the digit in my tens place to know my ones place. Who am I? _____ • Which number comes before the smallest 2-digit number? • If your father gave you 4 notes of 10 dirhams and mother gave you 6 coins of 1 dirham. How many dirhams will you have in all?
			6	• Numbers on abacus • Before, after & in between	• To represent the numbers on abacus as tens and ones up to 99. • To identify the order of numbers & write a number that comes after, before, and between.	Represent the given numbers on the abacus. Fill in the blanks to write what comes before, after & in between, Pick the appropriate number card activity-before, after & in between.	Laptop/Desktop, Task Sheets through assignments, PowerPoint Presentations, Videos, MS Forms for Assessment	Digital competence, Self confidence,Care, honesty						
			6	• Comparing numbers(<, >, =) • Ordering numbers	• To compare the numbers as greater than, less than or equal using >,< & = signs up to 100 To arrange the numbers in ascending & descending order up to 100	Compare the given numbers and write the suitable sign. Order the given set of numbers as ascending & descending.	Laptop/Desktop, Task Sheets through assignments, PowerPoint Presentations, Videos, MS Forms for Assessment	Digital competence, Self confidence,Care, honesty						
October & November	2	CH-6 Addition & Subtraction up to 100	6	Addition up to 100 Subtraction up to 100	• To add a 1-digit number & a 2-digit number up to 100 by counting forward. • To add one 2-digit number and one 1-digit number vertically using place values. • To add two 2-digit numbers vertically using place values. • To subtract a 1-digit number from a 2-digit number vertically using place values. • To subtract two 2-digit numbers vertically using place values.	• Horizontal addition • Vertical addition Vertical subtraction	Laptop/Desktop, Task Sheets through assignments, PowerPoint Presentations, Videos, MS Forms for Assessment	Digital competence, Self confidence,Care, honesty	Find the no of girls & boys in your class and find the total no of students by adding the numbers vertically.		Roshni wants to visit all the emirates of UAE. She has already visited 2 emirates of UAE. How many more emorates does she need to visit? Frame an addition sentence or a subtraction sentence to justify your answer.	Develop understanding of opposite words, can draw conclusions for simple situations by doing addition & Subtraction	Create a poster to depict fact families of addition & subtraction.		
			6	Story Problems	• To solve the story problems based on Addition & Subtraction • To solve the story problems based on Addition & Subtraction	Vertical subtraction Provide some real life situations to the students to solve and find the sum & difference	Laptop/Desktop, Task Sheets through assignments, PowerPoint Presentations, Videos, MS Forms for Assessment	Digital competence, Self confidence,Care, honesty						
			6	• Skip Counting in 2s • Repeated Addition of 2 • Making groups of 2 • Multiplication table of 2	• To skip count the numbers by 2s up to 100 • To understand the term 'multiplication' as repeated addition. • To express the repeated addition sentences as multiplication and vice versa. • To group the given pictures as groups of 2 and write the multiplication sentence and the product for the same. • To multiply the numbers using a number line. • To write & memorize the multiplication table of 2	Skip count by and fill in the missing numbers up to 100 Write the repeated addition sentence for the given pictures. Group the given pictures in 2s and write the multiplication sentences for it. Multiply using number line. Write the multiplication table by skip counting in 2s.	Laptop/Desktop, Task Sheets through assignments, PowerPoint Presentations, Videos, MS Forms for Assessment	Digital competence, Self confidence,Care, honesty						

Month	#	Chapter	Periods	Topics	Learning Objectives	Success Criteria / Activities	Resources	Values	Real Life Application	UAE Context	Cross-curricular	Activity/Project
November & December	4	CH 7: Multiplication	6	• Skip Counting in 3s • Repeated Addition of 3 • Making groups of 3 • Multiplication table of3	• To skip count the numbers by 3s up to 100 • To express the repeated addition sentences as multiplication and vice versa. • To group the given pictures as groups of 3 and write the multiplication sentence and the product for the same. • To multiply the numbers using a number line. • To write & memorize the multiplication table of 3	• Skip count by and fill in the missing numbers up to 100 • Write the repeated addition sentence for the given pictures. • Group the given pictures in 2s and write the multiplication sentences for it. • Multiply using number line. Write the multiplication table by skip counting in 2s.	Laptop/Desktop, Task Sheets through assignments, PowerPoint Presentations, Videos, MS Forms for Assessment	Digital competence, Self confidence,Care, honesty	If you want to give 2 chocolates to your 6 friends on your birthday. How many chocolates will you need to do so?	Burj Khalifa is the tallest building in UAE. It has 163 floors. If you skip count the no. of floors in burj khalifa, how many times will you skip?	Arabic: Write the arabic word for mulitplication	Represent a multiplication sentence by drawing pictures.
			6	• Skip Counting in 5s • Repeated Addition of 5 • Making groups of 5 • Multiplication table of 5	• To skip count the numbers by 5s up to 100 • To express the repeated addition sentences as multiplication and vice versa. • To write & memorize the multiplication table of 5	• Skip count by and fill in the missing numbers up to 100 • Write the repeated addition sentence for the given pictures. • Group the given pictures in 5s and write the multiplication sentences for it. • Write the multiplication table by skip counting in 5s.	Laptop/Desktop, Task Sheets through assignments, PowerPoint Presentations, Videos, MS Forms for Assessment	Digital competence, Self confidence,Care, honesty				
			6	• Skip Counting in 10s • Repeated Addition of 10 • Multiplication table of 10 • Vertical multiplication	• To skip count the numbers by 10s up to 100 • To express the repeated addition sentences as multiplication and vice versa. • To write & memorize the multiplication table of 10	• Skip count by and fill in the missing numbers up to 100 • Write the repeated addition sentence for the given pictures. • Write the multiplication table by skip counting in 10s. • Multiply vertically according to the place values and find the product.	Laptop/Desktop, Task Sheets through assignments, PowerPoint Presentations, Videos, MS Forms for Assessment	Digital competence, Self confidence,Care, honesty				
January	2	CH-8 MEASUREMENT		• Measurement of length with non-standard units • Measurement of length using a ruler • MEASUREMENT OF WEIGHT-Comparison of weight using weighing balance	• To know what is a hand span, foot span and a cubit. To find the length of objects using non-standard units- Hand span, cubit, foot span • To realize the need for standard units of measurement for finding length. • To measure the length of the objects or things using a ruler in centimeters. • To compare the weights of different objects using weighing balance as heavier and lighter.	Measure the length of various objects available Measure the various objects using a ruler Comparing the weights of different objects as light & heavy	Laptop/Desktop, Task Sheets through assignments, PowerPoint Presentations, Videos, MS Forms for Assessment	Digital competence, Self confidence,Care, honesty	Can measure things	Compare the weight of national fruit of UAE and India. Which is heavy and which one is light?	Science-Usage of body parts to measure the length	Draw lines/objects using a ruler and find its length in cms.
				• MEASUREMENT OF WEIGHT- Measuring the weight using a weighing machine Measurement of capacity or volume	• To realize the importance of standard units to measure the weight. • To know the standard units of measurement of weight as kilograms and grams. • To know the meaning of capacity or volume • To compare the capacities or volumes of different containers using one container.	Weigh the objects using a weighing machine Fill a mug or a jug with water using a cup, record the observations	Laptop/Desktop, Task Sheets through assignments, PowerPoint Presentations, Videos, MS Forms for Assessment	Digital competence, Self confidence,Care, honesty				
January	1	CH-9 TIME AND CALENDAR	6	Parts of a day Time Calendar -Days of the week Calendar -Months of the year	• To know the different parts of the day • To know the elements of a clock and their functions. • To learn telling time to the hour •"To sequence the days of the week in order. • To identify the days of the week with ordinal numbers • To sequence the months of the year in order. • To identify the months of the year with ordinal numbers	• Sequence the actions of the day in correct order • Marking the given time on paper plate clock • Write the time in digits & words • Arrange the days of the week in the correct order • Arrange the months of the year in order	Laptop/Desktop, Task Sheets through assignments, PowerPoint Presentations, Videos, MS Forms for Assessment	Digital competence, Self confidence,Care, honesty	Can tell time in hours	Clock Tower of Al Ain	Spell the vocabulary words like days of the week & months of the year	Create a clock using a paper plate, a cup ice cream stick and popsicle stick for pointing the time on a handmade clock.
February	1	CH-10 MONEY	6	Coins Notes Adding money Money stories	• To list the different values of coin currency. • To identify and describe the different features of a coin. (heads and tails) • To identify and list the different values of note currency. • To solve simple money addition problems by counting and finding the amount of money. • To solve money story addition and subtraction problems.	• To identify the values of different coins with its size and design • Stick the appropriate pictures of coins for the given values • List the different values of note currency. • Add the money and find the sum with pictures of coins and notes • Solve the simple money problems	Laptop/Desktop, Task Sheets through assignments, PowerPoint Presentations, Videos, MS Forms for Assessment	Digital competence, Self confidence,Care, honesty	Can identify and deal with currency notes & coins in day to day life	UAE currency name and notation-dirham notes and coins identification	Spell the vocabulary words	Collect the coins of 1 rupee and 1 dirham and trace it/shade it by keeping under the paper.
February	1	CH-11 DATA HANDLING	6	Count and analyze	• To sort and group things • To observe and analyze the given data. • To infer results from the given data. • To represent the data as bar graphs • To interpret the bar graphs	• Counting & Sorting with different coloured pebbles • Display different pictureson the board Ask the students to observe and record the number of objects in a sheet of paper. Write which object is least, which is highest? • Provide the data table or pictures and ask the students to create bar graphs for it.	Laptop/Desktop, Task Sheets through assignments, PowerPoint Presentations, Videos, MS Forms for Assessment	Digital competence, Self confidence,Care, honesty	Can sort, count and identify the least & most in given group of things/objects/toys	Arabic word for data	Spell the vocabulary words	Create a giant bar graph poster by sticking the pictures of students above the confectionary item they like to eat.