

AL AIN JUNIOR INDIAN SY	S SCHOOL STEM					N	AME OF THE DE	PARTMENT -Mathe	natics (SYLLABUS BREAK U	IP 2021-22 -A.II			
Name of the	Subject	Tanahari Sami	ro and Sufive			Grade: 5	AME OF THE DE	AKTMENT -Maule	natics :	JIELABOS BREAK O	1 2021-22 -1101			
Name of the														
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 Objective	Critical Thinking Subjective	Artificial Intelligence
April	1 2 3 4	Large Numbers	15	Building numbers up to9,99,99,999 Indian place value chart (up to crores Face value and face value of a digit in a Comparison and ordering of numbers. Successor and predecessor of a number. International place value chart. Number of numbers in between. Forming numbers. Rounding off numbers to the nearest Roman numerals.	CONSTRUCT numerals with REPRESENT numerals up to Organising COMPARE AND Logical Reasoning	Compare and contrast Indian & Composing and decomposing of MCQ http://mycbseguide.com/onlinetest/c Mental Ability Test Interdisciplinary project Population of each emirate of UAE - Present the data on map of UAE. Representation of event dates Home Assignments Mathletics	PPT/ VIDEO/ WEB LINK	COLLABORATI ON &INDEPENDEN T LEARNING / EMPATHY/ CARE/ HONESTY	Find out Arabic numbers from 1 to 10	ICT: Database Social & UAE: Population of UAE	Place Value Math Crafts - Halloween Place Value Math Craftivity - Create different ways that you could represent a number. Use hands-on manipulatives as you create your representations or Rounding Roller Coaster	a.Which of these numbers is the CLOSEST to 8700? b.What is seven hundreds, plus thirteen tens? .c.P, Q, R and S are four 4-digit numbers, each having the digit 9 only once and in the place shown. None of the other digits are known. What can be said with certainty about P, Q, R and S? P(9) Q(9) R(9) S(9)	and write the number so obtained in indian and International system of numbers?	
May	1 2 3 4	Operations With Large Numbers	18	Properties of Addition and subtraction. Addition and subtraction of large Addition and subtraction in real life. Properties of multiplication and division. Multiplication and division by 10/ 100/ Multiplication by 2digit/ 3digit Division by 1digit/ 2digit divisor. Multiplication and division in real life. Estimation in operations.	Numeracy/ Organizing/ CARRYING OUT addition of 2 CARRYING OUT subtraction VERIFY subtraction by DEVISING the properties of PUT INTO PRACTICE PUT INTO PRACTICE Problem Solving DESIGNING real life problems APPLY the understanding of	MCQ Multiplication Table test Mental Math Test Home Assignments	PPT/VIDEO/ WEBLINK :	CRITICAL THINKING / COLLABORATI ON/ PROBLEM SOLVING / EMPATHY/ CARE/ HONESTY/INTE GRITY	Find out the population of different emirates of U.A.E. Find the total population	ICT: Database Social & UAE: Population of UAE	Tessellations and multiplication	a.Raman School has a big fleet of 26 buses. If each bus has 58 seats, how many seats are there in all the buses totally? bTwice a certain number is 58. Four times that number will be c.Find the difference between the place value of 5's in 257578? d The smallest 6 digit number that can be formed using 9,2,6,0,3,1, (use each digit only once is	participated in NSO, 6725401 participated in IMO and 3327642 participated in NCO, then how many total number of students participated if rounfd off to nearest thousand? B. thare are 24 rows of guava tress in a fram.each row has 415 trees. Trees of 5 rows are cut down.Find the total amount of remaining guava trees in the farm? c. Each floor of a high rise building is fixed with 20 doors?There are 12 foots in the farm.	
June	1 2 3 4	Factors and Multiples	20	Factors Tests of divisibility. Prime and composite numbers. Prime factorization of a number. H.C.F – by finding common factors and Multiples. L.C.M. – by finding common multiples, Relationship between L.C.M & H.C.F.	Numeracy/ Reasoning skill PUT INTO PRACTICE the Analyse/ Compute/ Organise BREAK DOWN the numeral APPLY the understanding of APPLY the understanding of	Math Lab Activity Find prime numbers from 1 to 100 MCQ Formative Assessment task Represent prime factorization by	PPT/VIDEO/ WEBLINK :	CREATIVITY AND INNOVATION/P ROBLEM SOLVING/ COLLABORATI ON/ INDEPENDENT LEARNING/	Which is the smallest prime number? Find out its relation with U.A.E	UAE&SOCIAL: Dates from the history SCIENCE: Derivation/ numerical ICT: Database	Rainbow Factor Or Factor ninja and Multiple monster	a. How many 3's occur in the prime factorization of greatest 3 digit number? b. Who am I?I am a composite number greater than 50,divisible by 3 and 17.I am also 4 less than a multiple of 5 and 11. c. Are all odd numbers prime? d.The smallest number divisible by 15,20, 24,32 and 36 is	a. Three bells toall at intervals of 12,18,20 minutes respectively.if they start tolliing together ,after what time will they next toll together? b. The art teacher has 120 crayons and 30 sheets of paprer to give to her students.find the largest number of students to whom shecan give equal number of crayons andequal number of sheets of paper? c. Two bikes are riding a circular path the first rider completes a round in 12	
July August									SUMMER VAC	CATION				
September	1 2 3 4	Geometry	12	Basic elements of Geometry – point, Types of lines – concurrent, collinear, Angles Measuring angles. Classification of angles. Constructing angles Polygons, triangle, circle.	Logical Analysis UNDERSTAND the basic IDENTIFY the elements of an Classify/ Reasoning CLASSIFY the types of lines. CLASSIFY the types of angles. CLASSIFY the types of Analysis/ Drawing skill MEASURING and constructing CONSTRUCTING circles.	Collaborate with ICT – prepare a Formative Assessment task Show various types of angles using M.C.Q	PPT/VIDEO/ WEBLINK:	AND INNOVATION / COLLABORATI ON/ PROBLEM SOLVING / INDEPENDENT LEARNING/ CARE/	Draw some traffic signals and find out the relation with angles	UAE&SOCIAL: Geometry in day ARCHITECTURE: Architecture around ICT: Project work, ppt. ART: Tangrams	perpendicular, and intersecting lines. Locate right, acute, and obtuse angles. Search for types of triangles. Basically, students played an "I Spy" game. Or Geometry Family Tree Paper Craft Draw and represent various polygons and geometric elements Innovative Designs Use compass to design images	a. If a vertical line meet a horizontal line, the angle between the point of intersection is B. if two rays start fom a point and go in the opposite direction, the angle between them is	a Aknilas moter backed a circular cake. She fixed a ribbon around it for decoration, what does the length of the ribbon denote? B. Nehs has three pieces of thread. She arranged the threads. She then observed that she has created various angles, find out how many angles are formed? c. answer the questions; 1. can a triangle be made with three collinear points. why? b. Can there be two	
	1 2	Time	24	Calculating time duration. Reading calendar. Counting days.	Measuring skills READ / RECORD time from Computation CONVERT 12 hour clock to vice versa. Computation/ Problem Solving COMPUTE start time/ end time/	Group Work Activity – elapsed time for an M.C.Q	PPT/VIDEO/ WEBLINK :	INDEPENDENT LEARNING/ CREATIVITY AND INNOVATION/ DIGITAL COMPETENCE/	Draw a clock and mark the numbers in Arabic	ICT: Project work, ppt ART: Tangrams GEOGRAPHY: Clock Tower Al Ain STATISTICS:	Design a clock Design a 3D clock with both 12- hour and 24 - hour numbers on the clock for better understanding and conversion Also mark seconds and minutes in the clock		right angles in a tiangle/	
October	3 4	Data Handling		Organizing data using tally marks. Reading bar graphs. Drawing a bar graph. Circle graphs or pie charts.	Graphic skill/ Data Analysis ORGANISE, DISPLAY AND Bar graph/ pictograph and pie	Visits/ Projects Collect data by VISIT to the junior Section M.C.Q http://mycbseguide.com/onlinetest/c Home Assignment Mathletics - Graph interpretations - Two dimensional bar graph	PPT/VIDEO/ WEBLINK:	AND INNOVATION/ DIGITAL COMPETENCE INTEGRITY/ TOLERANCE/CA RE	Draw a pie chart showing different emirates of U.A.E based on its area.	Survey/ interview/ data collection. ICT: Database, Project work, ppt.	Create a Bar graph and pie charts For the given data construct as asked Graph Paper Art Use the squares in graph paper to make an exciting pattern			
November	1 2 3 4	Fractions	9	Types of fractions – proper, improper, Converting one type of fractions to Representing fractions on the number Comparing and ordering fractions. Reducing fraction to its lowest terms. Addition and subtraction of fractions. Multiplication of fraction. Reciprocal of a fraction. Division of fractions. Application in real life.	Analyze/ Compute/ organize OPERATE like/ unlike fractions Analyze/ Compute / Problem	Math Lab Activity Make the dial of clock by paper Formative Assessment Task Types of fractions – pictorial Design a situation in class related	PPT/VIDEO/ WEBLINK	CREATIVITY AND INNOVATION/ PROBLEM SOLVING CARE/ TOLERENCE/ EMPATHY	Draw a U.A.E flag and find out the fractions for each colour	UAE: UAE flag SCIENCE: Derivation/ numerical UAE: Arabic dish recipe	Fraction Art - create a colourful art piece while learning about shape, symmetry & fractions! Investigate & explore the fraction pieces. Discuss equivalent fractions (how many eighths fit into a half?) & practice adding & subtracting fractions	a. Nagmas was facing south east.she made an anticlockwise turn ansd ended up facing south.the turm Nagma took is	a. In an examination centre, there were 108 girls and 216 boys. What fracion of toyal students were girls? B. Froggy wants to cover a streamthe stream is 2 meters wide. On every jump Froggy covers one-third mere distance. In how many jumps will Froggy reach from rock A to rock B? c. A man complete one third of ihis work in an hour, in how many hours he can complete thw whole work? d. A herd of cows gives 4 L of milk each day. but each cow gives one- third of total milk each day. They give	
November December		Decimals	20	Concept of decimal. Place value of digits in a decimal number. Expanded notation of decimal numbers. Conversion decimals to fractions and Like and unlike decimals. Ordering of decimals.	Numeracy LABEL decimals on a number COMPARE AND ORDER Analyze/ Compute/ organize CONVERT decimals to	Formative Assessment Task Representation of Decimal Place Interdisciplinary project Amount of fresh water available on	PPT/VIDEO/ WEBLINK:	COLLABORATI ON / CRITICAL THINKING / PROBLEM SOLVING	Find out the Arabic word for decimal and fraction	GEOGRAPHY/ UAE: Distance. SCIENCE: Nutritional	Fraction and Decimal Hundred Grid art			

1				Addition/ subtraction/ multiplication/	EVTEND the second of the	M.C.O							
						Group Work		CARE/ INDIPENDENT		component. UAE:			
December	r 3 4	Money		Checking a bill and calculating bill	Numeracy		PPT/VIDEO/ WEBLINK :	LEARNING/ CREATIVITY	Prepare a bill including VAT	Proportionate scaling	Design your result Read the question and answer it		
				Unitary method for finding the price of an						CTIAT			
				Finding profit and loss.	COMPARE AND ORDER	Interdisciplinary project				of UAE map.			
				Finding the cost price and selling price.		Personal finance - Understanding				SCIENCE.	using drawing Show its profit or loss by drawings		
					Analyze/ Compute/ organize	 Set up budget given a salary. 				Ratio of chemical	asing arawing blow its profit of 1988 by arawings		
					CONVERT decimals to					values.			
					EXTEND the operations (+/ -)			COMPETENCE		UAE:			
	WINTER VACATION												
			6	The concept of percentage.	Analyze/ Compute / Problem	Interdisciplinary project		ON / CDITTICAL	Find out the				
January	1 2	Percentage	0	Relationship between fractions, decimals		Amount of fresh water available on	PPT/VIDEO/ WEBLINK:	SOLVING CARE/	common occupations of U.A.E and find out how much	supermarkets of			
				Applications of percentage in real life							Circle Graph Project. Students create a circle		
				Applications of percentage in real file	AFFLT percentage in real life	- Represent it as fraction: - Represent it as decimal.					graph of the activities in which they participate		
						- Represent it as decimal.					over a 24 hour period		
						Project Work				UAE	over a 24 nour period		
						Find % of your SA1 marks and			percentage of				
				N/ - :	X / · · · /				VAT is applied				
January -		Measurement s		Metric system.	Numeracy/ organizing/	Project Work	1	INDIPENDENT LEARNING/PRO	Find out the average	Tour around UAE	Metric Tools Draw various metric tools used to		
	3 4 1			Conversion of metric units.	LIST and identify the relation of					(routing – km-m			
				Operations on metric measures.	CONVERT from one unit to	Interdisciplinary project				conversion).			
			10 Computation (+/	Computation	Tour around U.A.E	PPT/VIDEO/	BLEM SOLVING	population of	Estimated population				
February					Computation (+/ - / \times / \div) on	- Routing and distance, km - m	WEBLINK :	HONESTY	different emirates of U.A.E	of UAE.	represent 3 metric systems Metric song Sing the metric song to remember all the units		
					Problem Solving	M.C.Q							
					SOLVE problems on length,	Home Assignment				P.E:			
					APPLICATION of average in	Problem Solving				BMI			
						Mathletics							
February		Perimeter and Area				Math Lab Activity		THINKING/ LOGICAL ANALYSIS / Draw a U.		GEOGRAPHY/			
						Make rectangles of different			Draw a U.A.E	UAE:			
						Find the area of each part of a set				Boundary, Area.	Area Using Applied Math - own house design to		
				Estimate area of irregular figures using		Visits/ Projects		CREATIVITY /	flag in a graph		find the area.		
	2			Finding volume by counting unit cubes.				LIN PROBLEM SOLVING TOLERENCE/CA	sheet and find	ICT:	or		
	3			Volume of a cuboid and a cube.					out its	Project work.	Design it to explain Represent perimeter, area and		
					EVALUATE the perimeter,	Draw plan of your dream home –			perimeter and		volume using drawings for understanding		
						Area of a design drawn on grid			•	ART:	Toothpick craft Make any shape and find its		
						M.C.Q			area		• • • • • • • • • • • • • • • • • • • •		
						Home Assignment		RE/ EMPATHY		Designs.	perimeter		
						Problem Solving Mathletics							