Ganado Unified School District (Mathematics/Kindergarten)

PACING GUIDE SY ZUZI-ZUZZ					
Timeline/	AZ College and Career Readiness	Essential Question	Learning Goal	Vocabulary	
Resources	Standard	(HESS Matrix)	C C	(Content/Academic)	
	1 st Quarter (August 3, 2021 to October 7, 2021)				
Used McGraw-Hill		Chapter 1		Chapter 1	
My Math	K.CC.A.3 Write numbers from 0 to 20.	How do we show how many?	K.CC.A.3 I can write the numbers 0 to	count	
Curriculum	Represent a number of objects with a		20. I can write a number to show how	number	
(will be updated	written numeral 0 to 20 (with 0	Standards for Mathematical	many are in a set of objects.	one	
when New	representing a count of no objects).	Practices		two	
Curriculum	and the second second second second second	K.MP.1 Make sense of		three	
becomes available)		problems and persevere in		four	
	the second se	K MP 2 Reason abstractly and		five	
		quantitatively.	and a second	zero	
<u>Volume 1</u>		K.MP.3 Construct viable			
Chapter 1		arguments and critique the		_	
Lesson 1 to 5	K.CC.C6 Identify whether the number of	reasoning of others.	K.CC.C6 I can identify whether the	greater than	
Lesson 6 to 8	objects in one group is greater than, less	K.MP.4 Model with	number of objects in one group is greater	less than	
Lesson 9	than, or equal to the number of objects in	mathematics.	than, less than, or equal to the number of	equal to	
Lesson 10 to 11	another group. (Include groups with up to	K.MP.5 Use appropriate tools	objects in another group. (Include groups		
	ten objects.)	K MP 6 Attend to precision	with up to ten objects.)		
		Kim O Attend to precision.			

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	K.CC.B.4 Understand the relationship	Chapter 2	K.CC.B.4 I can understand the	Chapter 2
Volume 1	between numbers and quantities; connect	What do numbers tell me?	relationship between numbers and	eight
Chapter 2	counting to cardinality.		quantities; connect counting to	nine
Lesson 1 to 8		Standards for Mathematical	cardinality.	seven
Lesson 9		Practices		six
Lesson 10 to 11		K.MP1 Make sense of problems		ten
	K.CC.B.4a When counting objects, say the	and persevere in solving them.	K.CC.B.4a. I can count objects one to one	ordinal number
	number names in the standard order,	K.MP.2 Reason abstractly and	by one and say the number names in	
	pairing each object with one and only one	quantitatively.	order, one-to-one correspondence.	
	number name and each number name with	K.MP.3 Construct viable		
	one and only one object (one-to-one	reasoning of others		
	correspondence).	K MP 4 Model with		
		mathematics		
		K.MP.6 Attend to precision.		
	- A	K.MP.7 Look for and make use	- A	
	K.CC.B.4b Understand that the last	of structure.	K.CC.B.4b I can understand that the last	
	number name said tells the number of	mental banking periods.	number name said tells the number of	
100	objects counted. The number of objects is	COMMUNICATION /	objects counted.	
	the same regardless of their arrangement or	and the second second	CARGER	
	the order in which they were counted	and the second sec		
	(cardinality).			
		206023		
	K.CC.B.4c Understand that each		K.CC.B.4c I can understand that each	
	successive number name refers to a		successive number name refers to a	
	quantity that is one larger (hierarchical		quantity that is one larger (hierarchical	
	inclusion).	SELF & BOTHEL	inclusion).	
		and the product of the		
		WHITE HERE 2.2	1	
	K.CC.B.5 Count to answer questions about		K.CC.B.5 I can count to answer questions	
	"How many?" when 20 or fewer objects		about "How many?" when 20 or fewer	
	are arranged in a line, a rectangular array,		objects are arranged in any order or as	
	or a circle, or as many as 10 things in a		many as 10 things in a scattered	
	scattered configuration; given a number		configuration; given a number from 1 to	
	from 1 to 20, count out that many objects.		20, count out that many objects.	
		N		
	K.CC.C7 Compare two numbers between		K.CC.C7 I can compare two numbers	
	0 to 10 presented as written numerals.		between 0 to 10 presented as written	
			numerals.	

Volume 2	K.G.A.1 Describe objects in the	Chapter 10	K.G.A.1 I can describe where objects are	Chapter 10
Chapter 10	environment using names of shapes, and	How do I identify positions?	located.	above
Lesson 1 to 4	describe the relative positions of these			behind
	objects using terms such as above, below,	Standard <mark>s for Mathematical</mark>		below
	beside, in front of, behind, and next to.	Practices		beside
		K.MP.1 Make sense of		in front of
		problems and persevere in		next to
		solving them.		
		R.MP.3 Construct viable		
		reasoning of others.		
		K.MP.4 Model with		
		mathematics.		
		K.MP.6 Attend to precision.		
			A A	
	4-24-2	NUMBER OF STREET, STRE	frank a	
		Character 9		Chapter 8
<u>Volume 2</u>	K MD A 1 Describe measurable attributes	Chapter 8	K MD A 1 L can describe an object's	Chapter o
Chapter 8	of a single object (a.g., length and weight)	How do I describe and	k.MD.A.11 Call describe all object s	basylor
Lesson 1 to 6	of a single object (e.g., length and weight).	beight and weight?	length and/or weight.	height
		height, and weight?		holds less
		Standards for Mathematical		holds more
		Practices		length
		K.MP.1 Make sense of	Addition of the second s	lighter
		problem <mark>s and perseve</mark> re in		longer
		solving them.	11 1000	shorter
		K.MP.3 Construct viable		taller
		arguments and critique the		weight
		reasoning of others.		C
	K.MD.A.2 Directly compare two objects	mathematics	K.MD.A.2 I can use words to compare	
	with a measurable attribute in common to	K-MP-5 Use appropriate tools	two objects.	
	see which object has "more of" or "less of"	strategically.		
	the attribute, and describe the difference	K.MP.6 Attend to precision.		
	(e.g., directly compare the length of 10			
	cubes to a pencil and describe one as			
	longer or shorter).			

	2 nd Quarter (C	October 12, 2021 to De	cember 17, 2021)	
Volume 2 Chapter 11 Lesson 1 to 9	 K.G.A.2 Correctly name shapes regardless of their orientations or overall size. (e.g., circle, triangle, square, rectangle, rhombus, trapezoid, hexagon, cube, cone, cylinder, sphere.) K.G.A.3 Identify shapes as two-dimensional (lying in a plane, flat) or three-dimensional (solid). K.G.B.4 Analyze and compare two- and three-dimensional shapes, in different sizes and orientations, using informal language to describe similarities, differences, parts and other attributes. (e.g., numbers of sides and vertices/corners), and other attributes (e.g., having sides of equal length). 	Chapter 11 How can I compare shapes? Standards for Mathematical Practices K.MP.1 Make sense of problems and persevere in solving them. K.MP.3 Construct viable arguments and critique the reasoning of others. K.MP.4 Model with mathematics. K.MP.5 Use appropriate tools strategically. K.MP.6 Attend to precision.	 K.G.A.2 I can name shapes. K.G.A.3 I can describe shapes as flat or solid. K.G.B.4 I can describe how flat and solid shapes look. 	Chapter 11 circle hexagon side rectangle round square straight triangle vertex Chapter 12
Chapter 12 Lesson 1 to 5	 K.G.B.5 Model shapes in the world by building shapes from components (e.g., use sticks and clay balls) and drawing shapes. K.G.B.6 Use simple shapes to form composite shapes. For example, "Can you join these two triangles with full sides touching to make a rectangle?" 	How do I identify and compare three-dimensional shapes? Standards for Mathematical Practices K.MP.1 Make sense of problems and persevere in solving them. K.MP.3 Construct viable arguments and critique the reasoning of others. K.MP.4 Model with mathematics. K.MP.6 Attend to precision. K.MP.7 Look for and make use of structure.	K.G.B.5 I can model shapes by building or drawing them.K.G.B.6 I can put together smaller shapes to make bigger shapes.	cone cube cylinder roll slide sphere stack

	K.MD.B.3 Classify objects into given	Chapter 9	K.MD.B.3 I can sort and count objects	Chapter 9
	categories; count the number of objects in	How do I sort objects?	into groups.	alike
Volume 2	each category and sort the categories by			different
Chapter 9	count. (Note: limit category counts to be	Standards for Mathematical		shape
Lesson 1 to 5	less than or equal to 10.)	Practices		size
		K.MP.1 Make sense of		sort
		problems and persevere in		
		solving them.		
		quantitatively		
		K.MP.3 Construct viable		
		arguments and critique the		
		reasoning of others.		
		K.MP.4 Model with		
		mathematics.		
			A	
	1-262	NAMES AND ADDRESS OF A DRESS OF A	(marked)	
		COMMUNICATION		
	- And	Contraction of the second second	- Constant	
	K CC A 1 Count to 100 by ones and by	Chanter 3	K CC A 1 I can count to 100 by ones and	Chapter 3
Volume 1	tens	How can I show numbers	hy tens	eighteen
Chapter 3	C115.	beyond 10?	by tens.	eleven
Lesson 1 to 10				fifteen
	K.CC.A.2 Count forward from a given	Standards for Mathematical	K.CC.A.2 I can count forward from a	fourteen
	number other than one, within the known	Practices	given number other than one, within the	nineteen
	sequence (e.g., "Starting at the number 5.	K.MP.1 Make sense of	known sequence (e.g., "starting at the	seventeen
	count up to 11.").	problems and persevere in	number 5, count up to 11.")	sixteen
	······································	solving them.		twelve
		K.MP.2 Reason abstractly and		twenty
	K.CC.A.3 Write numbers from 0 to 20.	quantitatively.	K.CC.A.3 I can write the numbers 0 to	5
	Represent a number of objects with a	R.MP.3 Construct viable	20. I can write a number to show how	
	written numeral 0 to 20 (with 0	reasoning of others	many are in a set of objects.	
	representing a count of no objects).	K.MP.4 Model with		
		mathematics.		
	K.CC.B.4 Understand the relationship		K.CC.B.4 I can understand the	
	between numbers and quantities; connect		relationship between numbers and	
	counting to cardinality.		quantities; connect counting to	
			cardinality.	



	3 rd Quarter (January 3, 2022 – March 11, 2022)				
Volume 1 Chapter 4	K.OA.A.1 Represent addition and subtraction concretely. <i>See Table 1</i> .	Chapter 4 How can we show a number in other ways?	K.OA.A.1 I can add and subtract in many ways.	Chapter 4 All vocabulary are review words	
Lesson 1 to 9	K.OA.A.3 Decompose numbers less than or equal to 10 into pairs in more than one way (e.g., using fingers, objects, symbols, tally marks, drawings, expressions).	Standards for Mathematical Practices K.MP.1 Make sense of problems and persevere in solving them. K.MP.2 Reason abstractly and quantitatively. K.MP.3 Construct viable arguments and critique the reasoning of others. K.MP.4 Model with mathematics. K.MP.5 Use appropriate tools	K.OA.A.3 I can show the different ways to make a number that is less than or equal to 10.		
	REVERENCE	strategically. K.MP.6 Attend to precision. K.MP.7 Look for and make use of structure.	CARSER		
Volume 1 <i>Chapter 5</i> <i>Lesson 1 to 7</i>	K.OA.A.4 For any number from 1 to 9, find the number that makes 10 when added to the given number, e.g., by using objects or drawings, and record the answer with a drawing or equation.	Chapter 5 How can I use objects to add? Standards for Mathematical Practices K.MP.1 Make sense of problems and persevere in solving them. K.MP.2 Reason abstractly and quantitatively. K.MP.3 Construct viable arguments and critique the reasoning of others. K.MP.4 Model with mathematics.	K.OA.A.4 I can add numbers to make 10.	Chapter 5 add equals sign (=) in all join plus sign (+)	



	4 th Quarte	er (March 21, 2022 – N	May 26, 2022)	
<u>Volume 1</u> Chapter 6 Lesson 1 to 7	K.OA.A.2 Solve addition and subtraction word problems and add and subtract within 10. <i>See Table 1</i> .	Chapter 6 How can I use objects to subtract to subtract? Standards for Mathematical	K.OA.A.2 I can solve addition and subtraction word problems.	Chapter 6 are left minus sign (-) subtract take away
	K.OA.A.5 Fluently add and subtract within 5.	 K.MP.1 Make sense of problems and persevere in solving them. K.MP.2 Reason abstractly and quantitatively. K.MP.3 Construct viable arguments and critique the reasoning of others. K.MP.4 Model with mathematics. K.MP.5 Use appropriate tools strategically. K.MP.6 Attend to precision. 	K.OA. A.5 I can add and subtract within 5.	
Volume 1 <i>Chapter 7</i> <i>Lesson 1 to 5</i>	 K.NBT.A.1 Compose and decompose numbers from 11 to 19 into ten ones and additional ones by using objects, drawings, and/or equations. Understand that these numbers are composed of ten ones and one, two, three, four, five, six, seven, eight, or nine ones (e.g., 18 = 10 + 8). K.NBT.B.2 Demonstrate understanding of addition and subtraction within 10 using place value. <i>See Table 1</i>. 	Chapter 7 How do we show numbers 11 to 19 in another way? Standards for Mathematical Practices K.MP.1 Make sense of problems and persevere in solving them. K.MP.2 Reason abstractly and quantitatively. K.MP.3 Construct viable arguments and critique the reasoning of others. K.MP.4 Model with mathematics. K.MP.8 Look for and express regularity in repeated reasoning.	KNBT.A.1. I can show how the numbers 11 to 19 are made up of tens and ones.	Chapter 7 All vocabulary are review words.

	Standards for Mathematical Practice		
K.MP.1	Make sense of problems and persevere in solving them.Mathematically proficient students explain to themselves the meaning of a problem, look for entry points to begin work on the problem, and plan and choose a solution pathway. While engaging in productive struggle to solve a problem, they continually ask themselves, "Does this make sense?" to monitor and evaluate their progress and change course if necessary. Once they have a solution, they look back at the problem to determine if the solution is reasonable and accurate. Mathematically proficient students check their solutions to problems using different methods, approaches, or representations. They also compare and understand different representations of problems and different solution pathways, both their own and those of others.		
K.MP.2	Reason abstractly and quantitatively. Mathematically proficient students make sense of quantities and their relationships in problem situations. Students can contextualize and decontextualize problems involving quantitative relationships. They contextualize quantities, operations, and expressions by describing a corresponding situation. They decontextualize a situation by representing it symbolically. As they manipulate the symbols, they can pause as needed to access the meaning of the numbers, the units, and the operations that the symbols represent. Mathematically proficient students know and flexibly use different properties of operations, numbers, and geometric objects and when appropriate they interpret their solution in terms of the context.		
K.MP.3	Construct viable arguments and critique the reasoning of others. Mathematically proficient students construct mathematical arguments (explain the reasoning underlying a strategy, solution, or conjecture) using concrete, pictorial, or symbolic referents. Arguments may also rely on definitions, assumptions, previously established results, properties, or structures. Mathematically proficient students make conjectures and build a logical progression of statements to explore the truth of their conjectures. They are able to analyze situations by breaking them into cases, and can recognize and use counterexamples. Mathematically proficient students present their arguments in the form of representations, actions on those representations, and explanations in words (oral or written). Students critique others by affirming or questioning the reasoning of others. They can listen to or read the reasoning of others, decide whether it makes sense, ask questions to clarify or improve the reasoning, and validate or build on it. Mathematically proficient students can communicate their arguments, compare them to others, and reconsider their own arguments in response to the critiques of others.		

K.MP.4	Model with mathematics. Mathematically proficient students apply the mathematics they know to solve problems arising in everyday life, society, and the workplace. When given a problem in a contextual situation, they identify the mathematical elements of a situation and create a mathematical model that represents those mathematical elements and the relationships among them. Mathematically proficient students use their model to analyze the relationships and draw conclusions. They interpret their mathematical results in the context of the situation and reflect on whether the results make sense, possibly improving the model if it has not served its purpose.
К.МР.5	Use appropriate tools strategically. Mathematically proficient students consider available tools when solving a mathematical problem. They choose tools that are relevant and useful to the problem at hand. Proficient students are sufficiently familiar with tools appropriate for their grade or course to make sound decisions about when each of these tools might be helpful; recognizing both the insight to be gained and their limitations. Students deepen their understanding of mathematical concepts when using tools to visualize, explore, compare, communicate, make and test predictions, and understand the thinking of others.
K.MP.6	Attend to precision. Mathematically proficient students clearly communicate to others using appropriate mathematical terminology, and craft explanations that convey their reasoning. When making mathematical arguments about a solution, strategy, or conjecture, they describe mathematical relationships and connect their words clearly to their representations. Mathematically proficient students understand meanings of symbols used in mathematics, calculate accurately and efficiently, label quantities appropriately, and record their work clearly and concisely.
K.MP.7	Look for and make use of structure. Mathematically proficient students use structure and patterns to assist in making connections among mathematical ideas or concepts when making sense of mathematics. Students recognize and apply general mathematical rules to complex situations. They are able to compose and decompose mathematical ideas and notations into familiar relationships. Mathematically proficient students manage their own progress, stepping back for an overview and shifting perspective when needed.
K.MP.8	Look for and express regularity in repeated reasoning. Mathematically proficient students look for and describe regularities as they solve multiple related problems. They formulate conjectures about what they notice and communicate observations with precision. While solving problems, students maintain oversight of the process and continually evaluate the reasonableness of their results. This informs and strengthens their understanding of the structure of mathematics which leads to fluency.

(Arizona Mathematics Standards December 2016, Arizona Department of Education)