Ganado Unified School District (Mathematics/4th Grade)

PACING Guide SY 2016 - 2017

Timeline & Resources	AZ College and Career Readiness Standard	Essential Question (HESS Matrix)	Learning Goal	Vocabulary (Content/Academic)
Quarter 1 Aug.1-Oct.6, 2016	Chapter 1 – Place Value			
McGraw-Hill My Math: Go Digital at connected.mcgraw -hill.com	4.NBT.1 Recognize that in a multi-digit whole number, a digit in one place represents ten times what it represents in the place to its right. Mathematical Practices 2 Reason abstractly and quantitatively. 4 Model with mathematics. 6 Attend to precision. 7 Look for and make use of structure.	How does place value help represent the value of numbers?	Students will identify the place value of digits in multi-digit numbers.	digit place value
McGraw-Hill My Math: Go Digital at connected.mcgraw -hill.com	Lesson 2 – Read and Write Multi-Digit Numbers 4.NBT.2 Read and write multi-digit whole numbers using base-ten numerals, number names, and expanded form. Compare two multi-digit numbers based on meanings of the digits in each place, using >, =, and < symbols to record the results of comparisons. Mathematical Practices 1 Make sense of problems and persevere	How does place value help represent the value of numbers?	Students will read and write multi-digit whole numbers.	period standard form expanded form word form

	 in solving them. 2 Reason abstractly and quantitatively. 3 Construct viable arguments and critique the reasoning of others 6 Attend to precision. 7 Look for and make use of structure. 			
McGraw-Hill My Math: Go Digital at connected.mcgraw -hill.com	4.NBT.2 Read and write multi-digit whole numbers using base-ten numerals, number names, and expanded form. Compare two multidigit numbers based on meanings of the digits in each place, using >, =, and < symbols to record the results of comparisons. Mathematical Practices 1 Make sense of problems and persevere in solving them. 2 Reason abstractly and quantitatively. 3 Construct viable arguments and critique the reasoning of others 5 Use appropriate tools strategically. 6 Attend to precision. 7 Look for and make use of structure.	How does place value help represent the value of numbers?	Students will compare numbers using a number line and a place-value chart.	is equal to (=) number line is greater than (>) is less than (<)
McGraw-Hill My Math: Go Digital at connected.mcgraw -hill.com	4.NBT.2 Read and write multi-digit whole numbers using base-ten numerals, number names, and expanded form. Compare two multi-digit numbers based on meanings of the digits in each place, using >, =, and < symbols to record the results of comparisons. Mathematical Practices	How does place value help represent the value of numbers?	Students will order numbers by using a place-value chart and comparing the digit values.	order

	 Make sense of problems and persevere in solving them. Reason abstractly and quantitatively. Construct viable arguments and critique the reasoning of others Model with mathematics. Attend to precision. Look for and make use of structure. 			
McGraw-Hill My Math: Go Digital at connected.mcgraw -hill.com	4.NBT.3 Use place value understanding to round multi-digit whole numbers to any place. Mathematical Practices 2 Reason abstractly and quantitatively. 3 Construct viable arguments and critique the reasoning of others 4 Model with mathematics. 5 Use appropriate tools strategically. 6 Attend to precision.	How does place value help represent the value of numbers?	Students will estimate numbers by rounding.	number line round
McGraw-Hill My Math: Go Digital at connected.mcgraw -hill.com	4.NBT.2 Read and write multi-digit whole numbers using base-ten numerals, number names, and expanded form. Compare two multi-digit numbers based on meanings of the digits in each place, using >, =, and < symbols to record the results of comparisons. Mathematical Practices 1 Make sense of problems and persevere in solving them. 3 Construct viable arguments and critique the reasoning of others 5 Use appropriate tools strategically. 6 Attend to precision.	How does place value help represent the value of numbers?	Students will use the four-step plan to solve problems.	None

	7 Look for and make use of structure.			
	Chapter 2- Add and Subtract Whole Number	ers		
McGraw-Hill My Math:	Lesson 1 - Addition Properties and Subtraction Rules	What strategies can I use to add or subtract?	Students will use addition properties and subtraction rules to add and subtract.	Associative Property of Addition
Go Digital at connected.mcgraw -hill.com	4.NBT.4 Fluently add and subtract multi-digit whole numbers using the standard algorithm. Mathematical Practices 2 Reason abstractly and quantitatively. 3 Construct viable arguments and critique the reasoning of others 5 Use appropriate tools strategically.	70030000		Commutative Property of Addition Identity Property of Addition unknown
*	 6 Attend to precision. 7 Look for and make use of structure. 8 Look for and express regularity in repeated reasoning. 	COMMUNICATION	CHRIST	
McGraw-Hill My Math: Go Digital at connected.mcgraw -hill.com	Lesson 2 – Addition and Subtraction Patterns 4.NBT.4 Fluently add and subtract multi-digit whole numbers using the standard algorithm. Mathematical Practices 2 Reason abstractly and quantitatively. 3 Construct viable arguments and critique the reasoning of others 7 Look for and make use of structure. 8 Look for and express regularity in repeated reasoning.	What strategies can I use to add or subtract?	Students will use patterns to solve addition and subtraction problems.	pattern
McGraw-Hill My Math: Go Digital at connected.mcgraw -hill.com	Lesson 3 – Add and Subtract Mentally 4.NBT.4 Fluently add and subtract multi-digit whole numbers using the standard algorithm. Mathematical Practices	What strategies can I use to add or subtract?	Students will use mental math to add and subtract.	hundreds tens thousands

	 Make sense of problems and persevere in solving them. Reason abstractly and quantitatively. Construct viable arguments and critique the reasoning of others Use appropriate tools strategically. Attend to precision. Look for and make use of structure. 			
McGraw-Hill My Math: Go Digital at connected.mcgraw -hill.com	 4.NBT.3 Use place value understanding for multidigit whole numbers. Mathematical Practices 2 Reason abstractly and quantitatively. 3 Construct viable arguments and critique the reasoning of others 4 Model with mathematics. 6 Attend to precision. 	What strategies can I use to add or subtract?	Students will estimate sums and differences of multi-digit numbers.	estimate difference
McGraw-Hill My Math: Go Digital at connected.mcgraw -hill.com	 Lesson 5 – Add Whole Numbers 4.NBT.4 Fluently add and subtract multi-digit whole numbers using the standard algorithm. Mathematical Practices 1 Make sense of problems and persevere in solving them. 2 Reason abstractly and quantitatively. 3 Construct viable arguments and critique the reasoning of others 5 Use appropriate tools strategically. 6 Attend to precision. 	What strategies can I use to add or subtract?	Students will add multi-digit whole numbers.	regroup
McGraw-Hill My Math: Go Digital at connected.mcgraw -hill.com	Lesson 6 – Subtract Whole Numbers 4.NBT.4 Fluently add and subtract multi-digit whole numbers using the standard algorithm.	What strategies can I use to add or subtract?	Students will subtract multi-digit whole numbers.	minuend subtrahend

McGraw-Hill My Math: Go Digital at connected.mcgraw -hill.com	Mathematical Practices 2 Reason abstractly and quantitatively. 3 Construct viable arguments and critique the reasoning of others. 5 Use appropriate tools strategically. 6 Attend to precision. 7 Look for and make use of structure. 8 Look for and express regularity in repeated reasoning.			
McGraw-Hill My Math: Go Digital at connected.mcgraw -hill.com	 Lesson 7 – Subtract Across Zeros 4.NBT.4 Fluently add and subtract multi-digit whole numbers using the standard algorithm. Mathematical Practices Make sense of problems and persevere in solving them. Construct viable arguments and critique the reasoning of others Use appropriate tools strategically. Look for and make use of structure. Look for and express regularity in repeated reasoning. 	What strategies can I use to add or subtract?	Students will subtract multi-digit numbers, when some digits are zero.	minuend regroup subtrahend
McGraw-Hill My Math: Go Digital at connected.mcgraw -hill.com	 4.NBT.4 Fluently add and subtract multi-digit whole numbers using the standard algorithm. Mathematical Practices 1 Make sense of problems and persevere in solving them. 3 Construct viable arguments and critique the reasoning of others 4 Model with mathematics. 5 Use appropriate tools strategically. 	What strategies can I use to add or subtract?	Students will solve problems by drawing a diagram.	none
McGraw-Hill My Math:	Lesson 9 – Solve Multi-Step Word Problems	What strategies can I use to add or subtract?	Students will solve multi-step word problems using addition and subtraction.	equation variable

Go Digital at connected.mcgraw -hill.com	4.OA.3 Solve multistep word problems posed with whole numbers and having whole-number answers using the four operations, including problems in which remainders must be interpreted. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding. Mathematical Practices 1 Make sense of problems and persevere in solving them. 2 Reason abstractly and quantitatively. 4 Model with mathematics. 5 Use appropriate tools strategically. 6 Attend to precision. Chapter 3 - Understand Multiplication and	Division	CHINGER	
McGraw-Hill My Math: Go Digital at connected.mcgraw -hill.com	Lesson 1 – Relate Multiplication and Division 4.NBT.5 Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models. Mathematical Practices 2 Reason abstractly and quantitatively. 3 Construct viable arguments and critique the reasoning of others 4 Model with mathematics.	How are multiplication and division related?	Students will understand how multiplication and division are related.	dividend divisor factor product quotient fact family

	6 Attend to precision.			
	7 Look for and make use of structure.			
	8 Look for and express regularity in			
	repeated reasoning.			
McGraw-Hill My	Lesson 2 – Relate Division and	How are multiplication	Students will relate division and	repeated subtraction
Math:	Subtraction	and division related?	subtraction.	repeated subtraction
Go Digital at	Subtraction	and division related:	subtraction.	
connected.mcgraw	4.NBT.6			
-hill.com	Find whole-number quotients and			
-IIII.COIII	remainders with up to four-digit dividends	1		
	and one-digit divisors, using strategies	THENDUNG		
	based on place value, the properties of	1000000000	7.1	
	operations, and/or the relationship between		3.1	
	multiplication and division. Illustrate and		A decrease and the second	
	explain the calculation by using equations,		ZZZZ	
	rectangular arrays, and/or area models.	COMMUNICATION		
39	Mathematical Practices	Promising of the Parish	A CONTRACTOR OF THE PARTY OF TH	50"
	2 Reason abstractly and quantitatively.	21011	CHREEN	
	3 Construct viable arguments and critique		20 Y 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	the reasoning of others		A STATE OF THE STA	
	4 Model with mathematics.	550000000	- V. J. J. Marie 1997	
	5 Use appropriate tools strategically.	/\`A.	11	
	6 Attend to precision.	1	/ / Butter	
	8 Look for and express regularity in	X 1		
	repeated reasoning.	SECT & BOCIAL	Y / 100	
M-C III M	Lesson 3 – Multiplication as Comparison		Ctudents will recognize the commonican	han dia anam
McGraw-Hill My Math:	Lesson 3 – Multiplication as Comparison	How are multiplication and division related?	Students will recognize the comparison of two groups as another strategy to use	bar diagram
Go Digital at	4.OA.1	and division related?	when multiplying.	
<u> </u>			when multiplying.	
connected.mcgraw -hill.com	Interpret a multiplication equation as a comparison, e.g., interpret 35=5x7 as a			
-IIIII.COIII	statement that 35 is 5 times as many as 7		3.0	
	•			
	and 7 times as many as 5. Represent verbal statements of multiplicative			
	comparisons as multiplication equations.			
	Mathematical Practices			
	1 Make sense of problems and persevere			
	in solving them.			

	 2 Reason abstractly and quantitatively. 3 Construct viable arguments and critique the reasoning of others 4 Model with mathematics. 5 Use appropriate tools strategically. 8 Look for and express regularity in repeated reasoning. 	S OANY		
McGraw-Hill My	Lesson 4 – Compare to Solve Problems	How are multiplication	Students will use comparison to solve	divide
Math: Go Digital at	4.OA.2	and division related?	problems.	multiply add
connected.mcgraw	Multiply or divide to solve word problems	THINKING		compare
-hill.com	involving multiplicative comparisons, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem, distinguishing multiplicative comparison from additive	COMMUNICATION		subtract
ľ	comparison. Mathematical Practices 1 Make sense of problems and persevere in solving them.		CHREE	
	 2 Reason abstractly and quantitatively. 3 Construct viable arguments and critique the reasoning of others 4 Model with mathematics. 6 Attend to precision. 7 Look for and make use of structure. 	SELT S SOCIAL		
McGraw-Hill My	Lesson 5 – Multiplication Properties and	How are multiplication	Students will use multiplication	Commutative Property
Math:	Division Rules	and division related?	properties and division rules.	of Multiplication
Go Digital at	A NIDEL 5			Identity Property of
connected.mcgraw -hill.com	4.NBT.5 Multiply a whole number of up to four		3.00	Multiplication Zero Property of
-IIIII.COIII	digits by a one-digit whole number, and			Multiplication
	multiply two two-digit numbers, using			1,1umpheumon
	strategies based on place value and the	\ //		
	properties of operations. Illustrate and			
	explain the calculation by using equations,			
	rectangular arrays, and/or area models.			

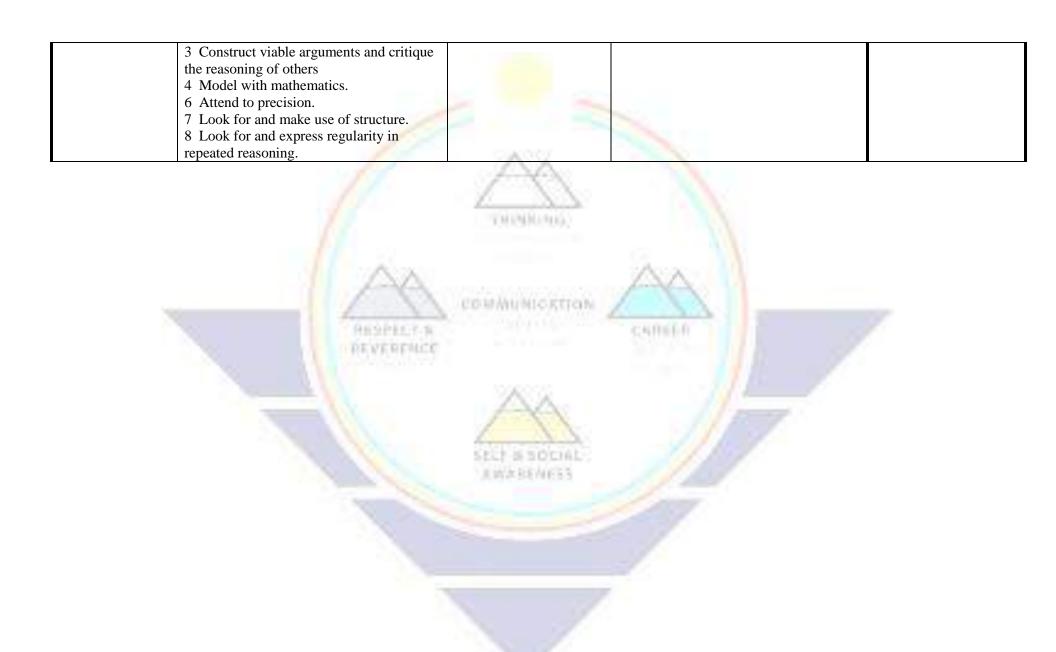
	Mathematical Practices 1 Make sense of problems and persevere in solving them. 2 Reason abstractly and quantitatively. 5 Use appropriate tools strategically. 6 Attend to precision. 7 Look for and make use of structure.	- Anney		
McGraw-Hill My Math: Go Digital at connected.mcgraw -hill.com	Lesson 6 – The Associative Property of Multiplication 4.NBT.5 Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models. Mathematical Practices 2 Reason abstractly and quantitatively. 3 Construct viable arguments and critique the reasoning of others 4 Model with mathematics. 5 Use appropriate tools strategically. 7 Look for and make use of structure.	How are multiplication and division related?	Students will use the Associative Property of Multiplication to solve problems.	Associative Property of Multiplication
McGraw-Hill My Math: Go Digital at connected.mcgraw -hill.com	4.OA.4 Find all factor pairs for a whole number in the range 1-100. Recognize that a whole number is a multiple of each of its factors. Determine whether a given whole number in the range 1-100 is a multiple of a given one-digit number. Determine whether a given whole number in the range 1-100 is prime or composite. Mathematical Practices	How are multiplication and division related?	Students will find factors and multiples of whole numbers.	decompose multiple

	 Make sense of problems and persevere in solving them. Reason abstractly and quantitatively. Construct viable arguments and critique the reasoning of others Use appropriate tools strategically. Look for and make use of structure. Look for and express regularity in repeated reasoning. 			
McGraw-Hill My Math:	Lesson 8 – Problem-Solving Investigation	How are multiplication and division related?	Students will check answers for reasonableness.	none
Go Digital at	4.OA.2	and division related?	reasonableness.	
connected.mcgraw -hill.com	Multiply or divide to solve word problems involving multiplicative comparisons, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem, distinguishing multiplicative comparison from additive comparison. Mathematical Practices	сомминектом	CHREEN	
	 Make sense of problems and persevere in solving them. Reason abstractly and quantitatively. Construct viable arguments and critique the reasoning of others Model with mathematics. Use appropriate tools strategically. 	SELT IS SOCIAL. AWARENESS		
	Chapter 4- Multiply with One-Digit Number			
McGraw-Hill My Math:	Lesson 1 – Multiples of 10, 100, and 1,000	How can I communicate multiplication?	Students will multiply multiples of 10, 100, and 1,000 using basic facts and	multiples patterns
Go Digital at	4.NBT.1		patterns.	
connected.mcgraw	Recognize that in a multi-digit whole			
-hill.com	number, a digit in one place represents ten times what it represents in the place to its right. Mathematical Practices			

	 2 Reason abstractly and quantitatively. 3 Construct viable arguments and critique the reasoning of others 4 Model with mathematics. 5 Use appropriate tools strategically. 7 Look for and make use of structure. 8 Look for and express regularity in repeated reasoning. 			
McGraw-Hill My Math: Go Digital at connected.mcgraw -hill.com	 Lesson 2 – Round to Estimate Products 4.NBT.3 Use place value understanding to round multi-digit whole numbers to any place. Mathematical Practices Make sense of problems and persevere in solving them. Reason abstractly and quantitatively. Construct viable arguments and critique the reasoning of others Use appropriate tools strategically. Look for and make use of structure. 	How can I communicate multiplication?	Students will estimate products by rounding.	place value round
McGraw-Hill My Math: Go Digital at connected.mcgraw -hill.com	Lesson 3 – Hands On: Use Place Value to Multiply 4.NBT.5 Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models. Mathematical Practices 2 Reason abstractly and quantitatively. 3 Construct viable arguments and critique the reasoning of others	How can I communicate multiplication?	Students will explore multiplication using models.	none

	4 Model with mathematics.			
McGraw-Hill My Math: Go Digital at	Lesson 4 - Hands On: Use Models to Multiply	How can I communicate multiplication?	Students will explore multiplication using area models and partial products.	partial products
connected.mcgraw -hill.com	4.NBT.5 Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models. Mathematical Practices 1 Make sense of problems and persevere in solving them. 2 Reason abstractly and quantitatively. 4 Model with mathematics. 5 Use appropriate tools strategically. 6 Attend to precision. 7 Look for and make use of structure.	THINKING.	CHREEN	
McGraw-Hill My Math: Go Digital at connected.mcgraw -hill.com	Lesson 5 – Multiply by a Two-Digit Number 4.NBT.5 Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models. Mathematical Practices 1 Make sense of problems and persevere in solving them. 2 Reason abstractly and quantitatively.	How can I communicate multiplication?	Students will multiply a two-digit number by a one-digit number.	none

	 3 Construct viable arguments and critique the reasoning of others 4 Model with mathematics. 6 Attend to precision. 7 Look for and make use of structure. 8 Look for and express regularity in repeated reasoning. 			
McGraw-Hill My Math: Go Digital at connected.mcgraw -hill.com	4.NBT.5 Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models. Mathematical Practices 1 Make sense of problems and persevere in solving them. 2 Reason abstractly and quantitatively. 4 Model with mathematics. 5 Use appropriate tools strategically. 6 Attend to precision.	How can I communicate multiplication?	Students will explore multiplication with regrouping using models.	regroup
McGraw-Hill My Math: Go Digital at connected.mcgraw -hill.com	4.NBT.5 Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models. Mathematical Practices 2 Reason abstractly and quantitatively.	How can I communicate multiplication?	Students will use the Distributive Property to make multiplication easier.	Distributive Property



Ganado Unified School District (Mathematics/4th Grade)

PACING Guide SY 2016-2017

Timeline & Resources	AZ College and Career Readiness Standard	Essential Question (HESS Matrix)	Learning Goal	Vocabulary (Content/Academic)
Quarter 2 October 2016 December 2016	Chapter 8 Fractions			
McGraw-Hill My Math: Go Digital at: Connected.mc graw-hill.com	Lesson 1 Factors and Multiples 4.OA.4 Find all factor pairs for a whole number in the range of 1-100. Recognize that a whole number is a multiple of each of its factors. Determine whether a given whole number in the range of 1-100 is a multiple of a given one-digit number. Mathematical practices: Make sense of problems and persevere in solving them. Reason abstractly and quantitatively. Model with mathematics. Use appropriate tools strategically. Attend to precision. Look for and make use of structure. Look for and express regularity in repeated reasoning.	How can different fractions name the same amount?	Students will find factors and multiples of whole numbers.	Academic language:
McGraw-Hill	Lesson 2	How can different	Students will determine if a	Academic Language:
My Math:	Prime and Composite Numbers	fractions name the same amount?	number is prime or composite.	Composite number

Go Digital at: Connected.mc graw-hill.com	4.OA.4 Find all factor pairs for a whole number in the range of 1-100. Recognize that a whole number is a multiple of each of its factors. Determine whether a given whole number in the range of 1-100 is a multiple of a given one-digit number. Determine whether a given whole number in the range of 1-100 is prime or composite.	THOUGH)		Prime number
	 Make sense of problems and persevere in solving them. Reason abstractly and quantitatively. Construct viable arguments and critique the reasoning of others. Model with mathematics. Use appropriate tools strategically. Attend to precision. Look for and make use of structure. Look for and express regularity in repeated reasoning. 	SECT IS SOCIAL AWARENESS	CHIEF	
McGraw-Hill My Math:	Lesson 3 Model Equivalent Fractions	How can different fractions name the same amount?	Students can explore equivalent fractions.	Content Vocabulary: • Denominator

Go Digital at: Connected.mc graw-hill.com	4.NF.1 Explain why a fractions a/b is equivalent to a fraction (n x a)/(n x b) by using visual fractions models, with attention to how the number and size of the parts differ even though the two fractions themselves are the same size. Use this principle to recognize and generate equivalent fractions. Mathematical practices:	AAA VIII VIII VIII		 Equivalent fractions Numerator
	 Make sense of problems and persevere in solving them. Reason abstractly and quantitatively. Construct viable arguments and critique the reasoning of others. Model with mathematics. Use appropriate tools strategically. Look for and express regularity in repeated reasoning. 	SELT IS SOCIAL AWARENESS	CHINA	

McGraw-Hill My Math: Go Digital at: Connected.mc graw-hill.com	Lesson 4 Equivalent Fractions 4.NF.1 Explain why a fractions a/b is equivalent to a fraction (n x a)/(n x b) by using visual fractions models, with attention to how the number and size of the parts differ even though the two fractions themselves are the same size. Use this principle to recognize and generate equivalent fractions.	How can different fractions name the same amount?	Students will find equivalent fractions.	Content vocabulary:
	 Mathematical practices: Make sense of problems and persevere in solving them. Reason abstractly and quantitatively. Model with mathematics. Look for and make use of structure. Look for and express regularly in repeated reasoning. 	SELF SISSCIAL AWARENESS	CHINELIN	
McGraw-Hill My Math: Go Digital at: Connected.mc graw-hill.com	Lesson 5 Simplest Form 4.NF.1 Explain why a fractions a/b is equivalent to a fraction (n x a)/(n x b) by using visual fractions models, with attention to how the number and size of	How can different fractions name the same amount?	Students will write a fraction in simplest form.	Content Vocabulary: • Greatest common factor • Simplest form

	the parts differ even though the two fractions themselves are the same size. Use this principle to recognize and generate equivalent fractions.			
	 Mathematical practices: Make sense of problems and persevere in solving them. Construct viable arguments and critique the reasoning of others. Model with mathematics Attend to precision. Look for and make use of structure 	COMMUNICATION		
	RESPECT N	2000	CARGO	
McGraw-Hill My Math:	Lesson 6 Compare and Order Fractions	How can different fractions name the same amount?	Students will compare and order fractions.	Content Vocabulary: • Least common multiple
Go Digital at: Connected.mc graw-hill.com	4.NF.2 Compare two fractions with different numerators and different denominators, e.g., by creating common denominators or numerators, or by comparing to a	SECT M SOCIAL AWARENESS		
	benchmark fraction such as 1/2. Recognize that comparisons are valid only when to two fractions refer to the same whole. Record the results of			
	comparisons with symbols >, =, or <, and justify the conclusions, e.g., by using a visual fraction model.			

	 Mathematical practices: Make sense of problems and persevere in solving them. Reason abstractly and quantitatively. Construct viable arguments and critique the reasoning of others. Use appropriate tools strategically. Attend to precision. 	VHONE NO.		
McGraw-Hill	Lesson 7	How can different	Student will use benchmark	Content Vocabulary:
My Math:	Use Benchmark Fractions to Compare and Order	fractions name the same amount?	fractions to compa <mark>re</mark> and order numbers.	Benchmark fractions`
Go Digital at:	1		1111	
Connected.mc graw-hill.com	4.NF.2 Compare two fractions with different numerators and different denominators, e.g., by creating common denominators or numerators, or by comparing to a benchmark fraction such as 1/2. Recognize that comparisons are valid only when to two fractions refer to the same whole. Record the results of comparisons with symbols >, =, or <, and justify the conclusions, e.g., by using a visual fraction model.	SECT & SOCIAL AWARENESS		
	Mathematical practices:			

	 Make sense of problems and persevere in solving them. Reason abstractly and quantitatively. Construct viable arguments and critique the reasoning of others. Model with mathematics Use appropriate tools strategically. Look for and make use of structure. 	70000000		
McGraw-Hill My Math:	Lesson 8 Problem Solving Investigation	How can different name the same amount?	Students will use logical reasoning to solve problems.	Academic language:
Go Digital at: Connected.mc graw-hill.com	numerators and different denominators, e.g., by creating common denominators or numerators, or by comparing to a benchmark fraction such as 1/2. Recognize that comparisons are valid only when to two fractions refer to the same whole. Record the results of comparisons with symbols >, =, or <, and justify the conclusions, e.g., by using a visual fraction model.	SECTION STATES TO STATE AND STATES TO STATES TO STATE AND STATES TO STATE AND STATES TO STATE AND STATES TO STATE AND STATES TO STATES TO STATE AND STATES TO STATES T	CHROLIN	
	 Mathematical practices: Make sense of problems and persevere in solving them. Reason abstractly and quantitatively. 			

	 Construct viable arguments and critique the reasoning of others. Use appropriate tools strategically. 			
McGraw-Hill	Lesson 9	How can different	Students will represent mixed	Content Vocabulary:
My Math:	Mixed Numbers	fractions name the same amount?	numbers by decomposing them into a sum of whole numbers and	 Mixed numbers
Go Digital at:	4.NF.3b	791200000	unit fractions.	
Connected.mc	Decompose a fraction into a sum of	2000000000	7.1	
graw-hill.com	fractions with the same denominators in		G 11	
	more than one way, recording each			
	decomposition by an equation. Justify decompositions, e.g. by using a visual	COMMUNICATION		
	fraction model.		CHREE	37
	naction model.		School 1	7
	Mathematical practices:		1111	
	 Make sense of problems and 	1206.1132	-14.1	
	persevere in solv <mark>i</mark> ng them.		11 2000	
	Reason abstractly and			
	quantitatively.Construct viable arguments and	SECT & SOCIAL		
	 Construct viable arguments and critique the reasoning of others. 	JUNE BENESS		
	 Model with mathematics. 		-	
	Use appropriate tools			
	strategically.			
	Attend to precision.			
	Look for and make use of			
	structure.	1		

	Lesson 10 Mixed numbers and Improper Fractions	How can different fractions name the same amount?	Students will write mixed numbers and improper fractions.	Content Vocabulary: • Improper fractions
	 4. NF.3 Understand a fraction a/b with a>1 as a sum of fractions 1/b. Mathematical practices: Make sense of problems and persevere in solving them. Reason abstractly and quantitatively. Construct viable arguments and critique the reasoning of others. Model with mathematics. Use appropriate tools strategically. Attend to precision. Look for and express regularly in repeated reasoning. 	COMMUNICATION	CHREEN	
Quarter 2 October 2016- December 2016	Chapter 9 Operations with Fractions			
McGraw-Hill My Math: Go Digital at:	Lesson 1 Hands on: Use Models to Add Like Fractions	How can I use operations to model real-world fractions?	Students will use models to add like fractions.	Content Vocabulary: Like fractions
Connected.mc graw-hill.com	4.NF.3a			

	Understand Addition from unit of fractions by applying and extending previous understandings of operations on whole numbers.			
	 Mathematical practices: Make sense of problems and persevere in solving them. Reason abstractly and quantitatively. Model with mathematics. Use appropriate tools strategically. Look for and make use of structure. Look for and express regularly in repeated reasoning. 	COMMUNICATION	CHREER	
McGraw-Hill My Math:	Lesson 2: Add Like Fractions	How can I use operations to model real-world fractions?		Review Vocabulary:
Go Digital at:	4.NF.3b	AMARANESS	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Simplify
Connected.mc	Decompose a fraction into a sum of			Greatest common
graw-hill.com	fractions with the same denominators			factor
	in more than one way, recording each		200	 Like fractions
	decomposition by an equation. Justify decompositions, e.g., by using			
	visual fractions model.			
	Mathematical practices:			

	 Reason abstractly and quantitatively. Construct viable arguments and critique the reasoning of others. Model with mathematics. Use appropriate tools strategically. Attend to precision. Look for and make use of structure. 	THOMBORO		
McGraw-Hill My Math:	Lesson 3: Hands on: Use Models to Subtract Like Fractions	How can I use operations to model real-world fractions?	Students will use models to subtract like fractions.	
Go Digital at: Connected.mc graw-hill.com	 4.NF.3a Understand Addition from unit of fractions by applying and extending previous understandings of operations on whole numbers. Mathematical practices: Reason abstractly and quantitatively. Construct viable arguments and critique the reasoning of others. Model with mathematics. Use appropriate tools strategically. Look for and make use of structure. Look for and express 	Teal-world fractions:	CHROLD	

McGraw-Hill My Math:	Lesson 4: Subtract Like Fractions	How can I use operations to model real-world fractions?	Students will subtract like fractions.	Content Vocabulary: • Like fractions • Simplest form
Go Digital at: Connected.mc graw-hill.com	4.NF.3a Understand Addition from unit of fractions by applying and extending previous understandings of operations on whole numbers.	70000000		
	 Mathematical practices: Make sense of problems and persevere in solving them. Reason abstractly and 	COMMUNICATION	A	
	 quantitatively. Construct viable arguments and critique the reasoning of others. Model with mathematics. Use appropriate tools strategically. Attend to precision. 	SELF SI SOCIAL	CHINELIN	
McGraw-Hill My Math: Go Digital at:	Lesson 5: Problem Solving Investigations: Work Backward 4. NF.3d Solve word problems involving	How can I use operations to model real-world fractions?	Students will work backwards to solve problems.	Academic Language: Work Backwards Content vocabulary:
Connected.mc graw-hill.com	addition and subtraction of fractions referring to the same whole and having like denominators, e.g., by using visual fractions models and equations to represent the problem.			
	Mathematical practices:			

	 Make sense of problems and persevere in solving them. Reason abstractly and quantitatively. Construct viable arguments and critique the reasoning of others. Model with mathematics. Use appropriate tools strategically. 			
McGraw-Hill My Math: Go Digital at: Connected.mc graw-hill.com	Lesson 6: Add Mixed Numbers 4.NF.3c Add and subtract mixed numbers with like denominators, e.g., by replacing each mixed number with an equivalent fraction, and/or by using properties of operations and the relationship between addition and subtraction. Mathematical practices: • Make sense of problems and persevere in solving them. • Reason abstractly and quantitatively. • Construct viable arguments and critique the reasoning of others. • Model with mathematics. • Look for and make use of structure. • Look for and express regularly in repeated reasoning.	How can I use operations to model real-world fractions?	Students will add mixed numbers.	Associative property Decompose Equivalent fractions Mixed number

McGraw-Hill My Math:	Lesson 7: Subtract Mixed Numbers	How can I use operations to model real-world fractions?	Students will subtract mixed numbers.	Content vocabulary: • Equivalent fractions
Go Digital at: Connected.mc	4.NF.3c Add and subtract mixed numbers with like denominators, e.g., by replacing each mixed number with an equivalent	real-world fractions:		
graw-hill.com	fraction, and/or by using properties of operations and the relationship between addition and subtraction.			
	 Mathematical practices: Make sense of problems and persevere in solving them. Reason abstractly and quantitatively. 	continuorian		
	 Construct viable arguments and critique the reasoning of others. Model with mathematics. Look for and make use of structure. Look for and express regularly in repeated reasoning. 	AA	CNINGER	
McGraw-Hill My Math:	Lesson 8: Hands on: Model Fractions and Multiplication	How can I use operations to model real-world fractions?	Students will use models to multiply fractions.	Content Vocabulary:
Go Digital at: Connected.mc graw-hill.com	4. NF.4a Understand a fraction a/b as a multiple of 1/b.			
	 Mathematical practices: Reason abstractly and quantitatively. Model with mathematics. 			

McGraw-Hill My Math: Go Digital at: Connected.mc graw-hill.com	 Use appropriate tools strategically. Attend to precision Look for and make sure of structure. Lesson 9: Multiply Fractions by Whole Numbers 4. NF.4b Understanding a multiple a/b as a multiple of 1/b, and use this understanding to multiply a fraction by a whole number. Mathematical practices: Make sense of problems and persevere in solving them. Reason abstractly and quantitatively. Model with mathematics. Use appropriate tools strategically. Attend to precision Look for and express regularly in repeated reasoning. Chapter 10 	How can I use operations to model real-world fractions?	Students will multiply fractions by whole numbers.	Content vocabulary: • Product
Quarter 3	Chapter 10 Fractions and Decimals			
January 2017 to March 2017				
McGraw-Hill My Math: Go Digital at:	Lesson 1 Hands on: Place Value Through Tenths and Hundredths	How are decimals and fractions related?	Students will explore using place- value charts and grids to model decimals.	Content Vocabulary;

Connected.mc graw-hill.com	 4. NF.6 Use decimal notation for fractions with denominators 10 or 100. Mathematical practices Reason abstractly and quantitatively. Construct viable arguments and 			•
	 critique the reasoning of others. Model with mathematics. Use appropriate tools strategically. Attend to precision. Look for and make use of structure. 	тимичи. сомминектом	CHREEN	
McGraw-Hill My Math:	Lesson 2: Tenths	How are decimals and fractions related?	Students will model and describe as part of the base-ten.	Content vocabulary: • Tenths
Go Digital at: Connected.mc graw-hill.com	4. NF.6 Use decimal notation for fractions with denominators 10 or 100.	nactions related:	as part of the base ten.	- Tentis
	 Mathematical practices Make sense of problems and persevere in solving them. Reason abstractly and quantitatively. Model with mathematics. Use appropriate tools strategically. Attend to precision. 			

	Look for and make use of structure.			
McGraw-Hill My Math:	Lesson 3: Hundredths	How are decimals and fractions related?	Students will model and describe hundredths as part of the base-ten.	Content vocabulary: • hundredths
Go Digital at: Connected.mc graw-hill.com	4. NF.6 Use decimal notation for fractions with denominators 10 or 100.	свимимодтам		
	 Mathematical practices Make sense of problems and persevere in solving them. Reason abstractly and quantitatively. Construct viable arguments and critique the reasoning of others. Model with mathematics. Use appropriate tools strategically. Attend to precision. Look for and make use of structure. Look for and express regularity in repeated reasoning. 	SECH SI SOCIAL AWARENESS	CHROLIN	
McGraw-Hill My Math:	Lesson 4: Hands on: Model Decimals and Fractions	How are decimals and fractions related?	Students will explore using grids and number lines to model the	Content Vocabulary:

Go Digital at: Connected.mc graw-hill.com	 4. NF.5 Express a fraction with denominator 10 as an equivalent fraction with denominator 100, and use this technique to add two fractions with respective 10 and 100. Mathematical practices Make sense of problems and persevere in solving them. Reason abstractly and quantitatively. Construct viable arguments and critique the reasoning of others. Model with mathematics. Use appropriate tools strategically. Attend to precision. Look for and make use of structure. Look for and express regularity in repeated reasoning. 	COMMUNICATION SELF SIDENES	relationship between decimals and fractions.	
McGraw-Hill My Math:	Lesson 5: Decimals and Fractions 4. NF.5 Express a fraction with	How are decimals and fractions related?	Students will identify, read, and write tenths and hundredths as decimals and as fractions.	Content Vocabulary: Decimal fraction
Go Digital at: Connected.mc	denominator 10 as an equivalent fraction with denominator 100, and use this	_	1	
graw-hill.com	technique to add two fractions with respective 10 and 100.	1		
	Mathematical practices	196		

	 Reason abstractly and quantitatively. Construct viable arguments and critique the reasoning of others. Model with mathematics. Use appropriate tools strategically. Attend to precision. Look for and express regularity in repeated reasoning. 	THOUSE THE		
McGraw-Hill My Math:	Lesson 6: Use Place Value and Models to Add	How are decimals and fractions related?	Student will use place value and equivalent fractions to add two fractions with	Content vocabulary: • Like fractions
Go Digital at: Connected.mc graw-hill.com	 4. NF.5 Express a fraction with denominator 10 as an equivalent fraction with denominator 100, and use this technique to add two fractions with respective 10 and 100. Mathematical practices Make sense of problems and persevere in solving them. Reason abstractly and quantitatively. Model with mathematics. Use appropriate tools strategically. Attend to precision. Look for and express regularity in repeated reasoning. 	SECH MINOCIAL AWARENESS	respective denominators 10 and 100.	

McGraw-Hill My Math:	Lesson 7: Compare and Order Decimals 4. NF.7 Compare two decimals to hundredths by reasoning about their size.	How are decimals and fractions related?	Students will compare and order decimals to hundredths by reasoning about their size.	Content Vocabulary: • Place Value
Go Digital at: Connected.mc graw-hill.com	Recognize that comparisons are valid only when the two decimals refer to the same whole. Record the results of comparisons with the symbols >, =, <, and justify the conclusions, e.g., by using a visual model.			
	 Mathematical practices: Make sense of problems and persevere in solving them. Reason abstractly and quantitatively. Construct viable arguments and critique the reasoning of others. Model with mathematics. Look for and make use of structure. 	COMMUNICATION	CHREEN	
McGraw-Hill My Math:	Lesson 8: Problem Solving Investigations: Extra or Missing Information	How are decimals and fractions related?	Students will find extra or missing information when solving problems.	Content Vocabulary:
Go Digital at: Connected.mc graw-hill.com	 4. NF.5 Express a fraction with denominator 10 as an equivalent fraction with denominator 100, and use this technique to add two fractions with respective 10 and 100. Mathematical practices Make sense of problems and persevere in solving them. 			

	 Reason abstractly and quantitatively. Construct viable arguments and critique the reasoning of others. Attend to precision. Look for and express regularity in repeated reasoning. 	THOUSE STORE	AA	
Quarter 3	Chapter 11			
January 2017 to March 2017	Customary Measurement			
McGraw-Hill	Lesson 1	Why do we convert	Students will estimate and	Content Vocabulary:
My Math:	Customary Units of Length	measurements?	measure length using customary	• Yard (yd.)
Go Digital at:	4. MD.1 know relative sizes of	AWARENESS	units.	Customary systems
Connected.mc	measurement units within one			• Foot (ft.)
graw-hill.com	system or units including km, m, cm;			•
	kg, g; lb., oz.; l, ml; hr., min, sec. Within			
	a single system of measurement		-/-	
	express measurements in a larger unit in terms of a smaller unit.			
	Record measurement equivalents in a	1		
	two-column table.			
	Mathematical practices:			

	 Make sense problems and persevere in solving them. Model with mathematics. Use appropriate tools strategically. Attend to precision. Look for and make use of structure. 			
McGraw-Hill My Math: Go Digital at: Connected.mc graw-hill.com	Lesson 2: Convert Customary Unit of Lengths 4. MD.1 know relative sizes of measurement units within one system or units including km, m, cm; kg, g; lb., oz.; l, ml; hr., min, sec. Within a single system of measurement express measurements in a larger unit in terms of a smaller unit. Record measurement equivalents in a two-column table. Mathematical practices: Make sense problems and persevere in solving them. Reason abstractly and quantitatively. Construct viable arguments and critique the reasoning of others. Model with mathematics. Use appropriate tools strategically.	Why do we convert measurements?	Students will convert customary units of length.	Content vocabulary:

	 Attend to precision. Look for and make use of structure. 			
McGraw-Hill My Math: Go Digital at: Connected.mc graw-hill.com	Lesson 3: Customary Units of Capacity 4. MD.1 know relative sizes of measurement units within one system or units including km, m, cm; kg, g; lb., oz.; l, ml; hr., min, sec. Within a single system of measurement express measurements in a larger unit in terms of a smaller unit. Record measurement equivalents in a two-column table.	Why do we convert measurements?	Student will estimate and measure customary capacities.	Content vocabulary: Capacity Gallon (gal) Pint (pt.) Quart (qt) Cup (c) Fluid ounce (fl oz.)
	 Mathematical practices: Make sense problems and persevere in solving them. Reason abstractly and quantitatively. Construct viable arguments and critique the reasoning of others. Model with mathematics. Attend to precision. Look for and express regularity in repeated reasoning. 	SECT IS SOCIAL. AWARENESS		
McGraw-Hill My Math:	Lesson 4: Converting Customary Units of Capacity	Why do we convert measurements?	Students will convert customary units of capacity.	Content Vocabulary: Review Vocabulary: Capacity

	4. MD.1 know relative sizes of			 Convert
Connected.mc	measurement units within one			Is equal to (=)
graw-hill.com	system or units including km, m, cm;			Is greater than (>)
	kg, g; lb., oz.; l, ml; hr., min, sec. Within			Is less than (<)
	a single system of measurement			
	express measurements in a larger	SWACC		
	unit in terms of a smaller unit.	1		
	Record measurement equ <mark>iva</mark> lents in a	1.1		
	two-column table.	700200000	- 1	
	Mathematical practices:			
	Make sense problems and		Acceptance	
	persevere in solving them.			
	Reason abstractly and	COMMUNICATION		
	quantitatively.		CHREER	
	 Construct viable arguments and 		2.30	
	critique the reasoning of others.		4 / //	
	 Model with mathematics. 	10000000	1.5	
	 Use appropriate tools 		11	
	strategically.			
	 Attend to precision. 		1100	
	 Look for and make use of 	SELF MINDERAL :		
	structure.	William Contract	A STATE OF THE STA	

Ganado Unified School District (Mathematics/4 **Units of Length)**

Timeline &	AZ College and Career Readiness	Essential Question	Learning Goal	Vocabulary
Resources	Standard	(HESS Matrix)		(Content/Academic)
Quarter 3	Chapter 11 – Customary			
Jan to March	Measurement			

McGraw-Hill My Math: Go Digital at: Connected.mc graw-hill.com	 4.MD.1 Know relative sizes of measurement units within one system of units (including km, m, cm; kg, g, lb. oz; l, ml; hr, min, sec,). Within a single system of measurement, express measurement in a larger unit in terms of a smaller unit. Record measurement equivalents I a two-column table. Mathematical practices: Make sense of problems and persevere in solving them. Model with mathematics. Use appropriate tools strategically. Attend to precision. Look for and make use of structure. 	How can you convert customary units of measurement?	Students will estimate and measure using customary units.	Academic language:
McGraw-Hill My Math: Go Digital at: Connected.mc graw-hill.com	Lesson 2 – Convert Customary Units of Length 4.MD.1 Know relative sizes of measurement units Within one system of	How can you convert customary units of measurement?	I can convert customary units of length	Academic language:

	measurement (including km, m, com, kg, g: lb., oz; l, ml,; hr, min, sec.) Within a single system of measurements, express measurements in a larger unit in terms of a smaller unit. Record measurement equivalents in a two-column table. Mathematical practices: • Make sense of problems and persevere in solving them. • Reason abstractly and quantitatively • Construct viable arguments and critique the reasoning of others. • Model with mathematics. • Use appropriate tools strategically. • Attend to precision. • Look for and make use of structure.	COMMUNICATION CONTRACTOR	CHINGER	
McGraw-Hill My Math:	Lesson 3 – Customary Units of Capacity	How can you convert customary units of measurement?	I can estimate and measure customary capacities.	Academic language:
Go Digital at: Connected.mc	Mathematical practices:		-3/	pint (pt.)quart (qt.)
graw-hill.com	 Make sense of problems and persevere in solving them. Reason abstractly and quantitatively. 			cup (c.)fluid ounces (floz)

	 Construct viable arguments and critique the reasoning of others. Model with mathematics. Use appropriate tools strategically. Attend to precision. Look for and make use of structure. 			
McGraw-Hill My Math: Go Digital at: Connected.mc graw-hill.com	 Lesson 4 - Convert Customary Units of Capacity Mathematical practices: Make sense of problems and persevere in solving them. Reason abstractly and quantitatively. Construct viable arguments and critique the reasoning of others. Model with mathematics. Use appropriate tools strategically. Attend to precision. Look for and make use of structure. 	How can you convert customary units of measurement?	I can convert customary units of capacity.	Academic language:
McGraw-Hill My Math: Go Digital at:	Lesson 5 – Customary Units of Weight Mathematical practices:	How can you convert customary units of measurement?		Academic language:

Connected.mc graw-hill.com	 Make sense of problems and persevere in solving them. Model with mathematics. Use appropriate tools strategically. Attend to precision. Look for and make use of structure. 			
McGraw-Hill My Math:	Lesson 6 – Convert Customary Units of Weight	How can you convert customary units of measurement?		Academic language:
Go Digital at: Connected.mc	Mathematical practices:	COMMUNICATION		lengthweight
graw-hill.com	 Make sense of problems and persevere in solving them. Model with mathematics. Use appropriate tools strategically. Attend to precision. Look for and make use of structure. 	SELP SISOCIAL AWARENESS	CHINEED	weight
McGraw-Hill My Math:	Lesson 7 – Convert Units of Time	How can you convert customary units of measurement?		Academic language: • seconds
Go Digital at:	Mathematical practices:			
Connected.mc graw-hill.com	Make sense of problems and persevere in solving them.Model with mathematics.			

	 Use appropriate tools strategically. Attend to precision. Look for and make use of structure. 	SANCY S		
McGraw-Hill My Math:	Lesson 8 – Display Measurement Data in a Line-Plot	How can you convert customary units of measurement?		Academic language: • line plot
Go Digital at: Connected.mc graw-hill.com	 Mathematical practices: Make sense of problems and persevere in solving them. Model with mathematics. Use appropriate tools strategically. Attend to precision. Look for and make use of structure. 	сомминісктом	CHREEN	
McGraw-Hill My Math: Go Digital at: Connected.mc	Lesson 9 – Solve Measurement Problems	How can you convert customary units of measurement?		Academic language: • fraction
graw-hill.com				
	Mathematical practices:			
	 Make sense of problems and persevere in solving them. 			
	 Model with mathematics. Use appropriate tools strategically. 			

	Attend to precision.Look for and make use of structure.			
McGraw-Hill My Math: Go Digital at: Connected.mc graw-hill.com	Lesson 10 – Problem – Solving Investigation: Guess, Check, and Revise Mathematical practices: • Make sense of problems and persevere in solving them. • Model with mathematics. • Use appropriate tools strategically. • Attend to precision. • Look for and make use of structure.	How can you convert customary units of measurement?	CHREEN	Academic language:
Quarter 3 Jan to March	Chapter 12 – Metric Measurement			
McGraw-Hill My Math: Go Digital at: Connected.mc graw-hill.com	4.MD.1 Know relative sizes of measurement units within one system of units including (e.g.; kg, g; lb, oz,; l, ml, hr. min, sec.) Within a single system of measurement, express measurements. In a larger unit in terms of a smaller unit.	How can could you solve a problem involving measurement from a lager Unit to a smaller unit.	I can estimate and measure mass and learn the difference between weight and mass.	Academic language:

	Mathematical practices:			
	 Reason abstractly and quantitatively. Construct viable arguments and critique the reasoning of others. Model with mathematics. Use appropriate tools strategically. Attend to precision. Look for and express regularity in repeated reasoning. 	7909000		
McGraw-Hill My Math: Go Digital at: Connected.mc graw-hill.com	Lesson 2 –Metric Units of Capacity 4.MD.1 Know relative sizes of measurement units within one system of units including (e.g.; kg, g; lb, oz,; l, ml, hr. min, sec.) Within a single system of measurement, express measurements. In a larger unit in terms of a smaller unit.	How can could you solve a problem involving measurement from a lager Unit to a smaller unit.	I can estimate and measure metric capacity.	Academic language: • liter (L) • milliliter (mL)
	 Mathematical practices: Reason abstractly and quantitatively. Make sense of problems and persevere in solving them. Construct viable arguments and 			

	 Model with mathematics. Look for and express regularity in repeated reasoning. 			
McGraw-Hill My Math: Go Digital at: Connected.mc graw-hill.com	Lesson 3 – Metric Units of Mass 4.MD.1 Know relative sizes of measurement units within one system of units including (e.g.; kg, g; lb, oz,; l, ml, hr. min, sec.) Within a single system of measurement, express measurements. In a larger unit in terms of a smaller unit. Mathematical practices:	How can could you solve a problem involving measurement from a lager Unit to a smaller unit.	I can estimate and measure mass and learn the difference between weight and mass.	Academic language:
	 Reason abstractly and quantitatively. Construct viable arguments and critique the reasoning of others. Model with mathematics. Attend to precision. Look for and express regularity in repeated reasoning. 	SELF M SOCIAL		
McGraw-Hill My Math:	Lesson 4 – Problem – Solving Investigation: Make an Organized List	How can could you solve a problem involving measurement	I can make an organized list to solve problems.	Academic language: • distance • volumes
Go Digital at: Connected.mc graw-hill.com	4.MD.2 Use the four operations to solve word problems involving distances, intervals to time, liquid	from a lager Unit to a smaller unit.		massfractionsdecimal

	volumes, masses of objects, and money, including problems involving simple fractions or decimals, and problems that require expressing measurement given in larger unit in terms of s smaller unit. Mathematical practices: Reason abstractly and quantitatively. Make sense of problems and persevere in solving them. Construct viable arguments and critique the reasoning of others. Model with mathematics. Use appropriate tools strategically.	THOMAS CETAN	CARGO	intervalsmoney
McGraw-Hill My Math: Go Digital at: Connected.mc graw-hill.com	Lesson 5 – Convert Metric Units 4.MD.2 Use the four operations to solve word problems involving distances, intervals to time, liquid volumes, masses of objects, and money, including problems involving simple fractions or decimals, and problems that require expressing measurement given in larger unit in terms of s smaller unit.	How can could you solve a problem involving measurement from a lager Unit to a smaller unit.	I will convert metric mass.	Academic language: • convert

	 Mathematical practices: Reason abstractly and quantitatively. Construct viable arguments and critique the reasoning of others. Model with mathematics. Attend to precision. 			
McGraw-Hill My Math: Go Digital at: Connected.mc graw-hill.com	Lesson 6 – Solve Measurement Problems 4.MD.2 Use the four operations to solve word problems involving distances, intervals to time, liquid volumes, masses of objects, and money, including problems involving simple fractions or decimals, and problems that require expressing measurement given in larger unit in terms of s smaller unit. Record measurement equivalents in a two-column table.	How can could you solve a problem involving measurement from a lager Unit to a smaller unit.	I can convert metric units.	Academic language: • convert
	 Mathematical practices: Reason abstractly and quantitatively. Construct viable arguments and critique the reasoning of others. Model with mathematic. 			

	Attend to precision.			
Quarter 3 Jan to March	Chapter 13 – Perimeter and Area			
McGraw-Hill My Math: Go Digital at: Connected.mc graw-hill.com	4.MD.3 Apply the area and perimeter formulas for rectangles in real world and mathematical problems.	How can problems involving measurement and conversions of measurement forma larger unit to a smaller unit.	I can find the perimeter of a figure.	Academic language: • perimeter
	 Mathematical practices: Make sense of problems and persevere in solving them. Reason abstractly and quantitatively. Model with mathematics. Use appropriate tools strategically. Attend to precision. Look for and make use of structure. Look for and express regularity in repeated reasoning. 	SELT IS SOCIAL AWARENESS	CHIEF	
McGraw-Hill My Math:	Lesson 2 – Problem-Solving Investigation: Solve a simpler Problem	How can problems involving measurement	I can solve a simpler problem to solve problems.	Academic language: • perimeter
Go Digital at: Connected.mc graw-hill.com	4.MD.3 Apply the area and perimeter formulas for rectangles in real world and mathematical problems.	and conversions of measurement forma larger unit to a smaller unit.		• units

	 Mathematical practices: Make sense of problems and persevere in solving them. Construct viable arguments and critique the reasoning of others. Reason abstractly and quantitatively. Use appropriate tools strategically. Attend to precision. Look for and express regularity in repeated reasoning. 	COMMUNICATION	CHROLD	
McGraw-Hill My Math: Go Digital at: Connected.mc graw-hill.com	Lesson 3 – Hands On: Model Area4.MD.3 Apply the area and perimeter formulas for rectangles in real world and mathematical problems.	How can problems involving measurement and conversions of measurement forma larger unit to a smaller unit.	I can explore the area of a figure.	Academic language:
	 Mathematical practices: Reason abstractly and quantitatively. Construct viable arguments and critique the reasoning of others. Use appropriate tools strategically. Attend to precision. 			

	 Look for and make use of structure. Look for and express regularity in repeated reasoning. 			
McGraw-Hill My Math: Go Digital at: Connected.mc graw-hill.com	 4.MD.3 Apply the area and perimeter formulas for rectangles in real world and mathematical problems. Mathematical practices: Make sense of problems and persevere in solving them. Reason abstractly and quantitatively. Construct viable arguments and critique the reasoning of others. Model with mathematic. Attend to precision. Look for and make use of structure. Look for and express regularity 	How can problems involving measurement and conversions of measurement forma larger unit to a smaller unit.	I can find the area of rectangles and squares.	Academic language: • area
McGraw-Hill My Math: Go Digital at: Connected.mc graw-hill.com	in repeated reasoning. Lesson 5 – Relate Area and Perimeter 4.MD.3 Apply the area and perimeter formulas for rectangles in real world and mathematical problems.	How can problems involving measurement and conversions of measurement forma larger unit to a smaller unit.	I can relate area to perimeter.	Academic language:

	 Mathematical practices: Make sense of problems and persevere in solving them. Reason abstractly and quantitatively. Model with mathematics. Attend to precision. 	ZHONKONO.		
Quarter 3 Jan to March	Chapter 14 – Geometry			
McGraw-Hill My Math: Go Digital at: Connected.mc graw-hill.com	 Lesson 1 - Draw Points, Lines, and Rays. 4.G.1 Draw points, lines, line segments, rays, angles (right, acute, obtuse) and perpendicular and parallel. Mathematical practices: Reason abstractly and quantitatively. Connect viable argument and critique the reasoning of others. Model with mathematics. Use appropriate tools strategically. Attend to precision. 	How can you draw and identify lines and angles, and classify shapes by properties of their lines and angles.	I can draw points, lines, line segments, and rays and identify these in two-dimensional figures.	Academic language:

McGraw-Hill My Math: Go Digital at:	Lesson 2 – Draw Parallel and Perpendicular Lines 4.G.1 Draw points, lines, line segments,	How can you draw and identify lines and angles, and classify shapes by properties of	I can draw parallel, intersecting, and perpendicular lines and identify these in two- dimensional figures.	Academic language:
Connected.mc graw-hill.com	rays, angles (right, acute, obtuse) and perpendicular and parallel.	their lines and angles.	differisional figures.	intersecting
	 Reason abstractly and quantitatively. Make sense of problems and persevere. Model with mathematics. Use appropriate tools strategically. Attend to precision. 	COMMUNICATION	CHREEN	
	 Look for and express regularity in repeated reasoning. 	SELF IS SOCIAL		
McGraw-Hill My Math:	Lesson 3 – Hands On: Model Angles 4.MD.5a An angle is measured with	How can you draw and identify lines and angles, and classify	I can understand concepts of angles and angle measurement.	Academic language: • angle
Go Digital at: Connected.mc graw-hill.com	reference to a circle with its center at the common endpoints of the rays, by considering the fraction of the circular arc between the points where the two rays intersect the circle.	shapes by properties of their lines and angles.		

 Mathematical practices: Reason abstractly and quantitatively. Make sense of problems and preserve to solving them. 			
 Connect viable argument and critique the reasoning of others. Model with mathematics. Use appropriate tools strategically. Attend to precision. Look for and express regularity in repeated reasoning. 	COMMUNICATION .	CHREE	
Lesson 5 – Measure Angles 4.MD.6 Measure angles in whole number degree using a protractor.	How can Geometric measurement understand concepts of angle and measurement angles.	I can use a protractor to measure angles to the nearest degrees.	Academic language: • angle
Mathematical practices:			
 Construct viable arguments and critique the reasoning of others. Model with mathematics. Use appropriate tools strategically. Attend to precision. 			

	Look for and make use of structure			
McGraw-Hill My Math: Go Digital at: Connected.mc graw-hill.com	4.MD.6 Measure angles in wholenumber degrees using a protractor. Sketch angles of specified measure.	How can Geometric measurement understand concepts of angle and measurement angle.	I can use a protractor to draw angles of a specified measure.	Academic language:
	Mathematical practices:	сомминисктом		
	 Reason abstractly and quantitatively. Construct viable arguments and critique the reasoning of others. Use appropriate tools strategically. Attend to precision. 	SELT IS SOCIAL. AWARENESS	CHINESE	
McGraw-Hill My Math:	Lesson 7 – Solve Problems with Angles4.G.1 Draw points, lines, line segments,	How can you draw and identify lines and angles, and classify	I can solve addition and subtraction problems to find unknown angles on a diagram in	Academic language:
Go Digital at: Connected.mc graw-hill.com	rays, angles (right, acute, obtuse) and perpendicular and parallel.	shapes by properties of their lines and angles.	real-world and mathematical situation.	
	Mathematical practices:			

	 Reason abstractly and quantitatively. Connect viable argument and critique the reasoning of others. Model with mathematics. Use appropriate tools strategically. Attend to precision. 	78190.90		
McGraw-Hill My Math: Go Digital at: Connected.mc graw-hill.com	 4.G.2 Classify two-dimensional figures based on the presence or absence of parallel or perpendicular lines, or the pressure or absence of angles of a specified size. Recognize right triangles as a category, and identify right triangle. Mathematical practices: Reason abstractly and 	How can you draw and identify lines and angles, and classify shapes by properties of their lines and angles.	I can classify triangles based on angle measure and describe triangles using their attributes.	Academic language:
	 quantitatively. Connect viable argument and critique the reasoning of others. Model with mathematics. Use appropriate tools strategically. Attend to precision. Look for and make use of structure 			

McGraw-Hill My Math: Go Digital at: Connected.mc graw-hill.com	Lesson 9 – Quadrilaterals 4.G.2 Classify two-dimensional figures based on the presence or absence of parallel or perpendicular lines, or the presence or absence of angles of a specified size.	How can you draw and identify lines and angles, and classify shapes by properties of their lines and angles.	I can classify quadrilaterals using their attributes.	Academic language:
,	Mathematical practices:	сомминектом		
	 Reason abstractly and quantitatively. Model with mathematics. Use appropriate tools strategically. Look for and make use of structure Look for and make use of structure. Attend to precision. 	SELP SI SIDLIAL AWARENESS	CSINGLE	
McGraw-Hill My Math: Go Digital at: Connected mc	4.G.3 Recognize a line a symmetry for a two-dimensional figure as a line across the figure such that the figure can be	How can you draw and identify lines and angles, and classify shapes by properties of their lines and angles	I can identify figures with line symmetry and draw lines of symmetry.	Academic language: Line of symmetry line symmetry
Connected.mc graw-hill.com	the figure such that the figure can be folded along the line into matching	their lines and angles.		

	parts. Identify line-symmetric figures and draw lines symmetry.			
	 Mathematical practices: Reason abstractly and quantitatively. Connect viable argument and critique the reasoning of others. Model with mathematics. Attend to precision. Look for and make use of structure. 	COMMUNIC STIGN	CHRELD	
McGraw-Hill My Math: Go Digital at: Connected.mc graw-hill.com	Lesson 11 - Problem-Solving Investigation: Make a Model 4.G.1 Draw points, lines, line segments, rays, angles (right, acute, obtuse) and perpendicular and parallel lines. Identify these in two-dimensional figures.	How can you draw and identify lines and angles, and classify shapes by properties of their lines and angles.	I can solve problems by making a model.	Academic language:
	 Mathematical practices: Reason abstractly and quantitatively. Make sense of problems and persevere Connect viable argument and critique the reasoning of others. Model with mathematics. 			

	 Use appropriate tools strategically. Attend to precision. Look for and make use of structure. Look for and express regularity in repeated reasoning. 			
4 th Quarter	Review and Assessments	796200005)		
	 Galileo In class tests Arizona Merit AIMS science Reteach specific standards 	COMMUNICATION SECTION	CHINELIN	

