Mrs. Esarey Mrs. Arnao Mathematics September Topic 1: Solve Addition and Subtraction Problems to 10 Domain: Operations and Algebraic Thinking	 Standards for Mathematical Practice: 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. Story: Subtraction Dance Party 	ng of others.	
Clusters: Represent and solve problems involving addition and subtraction; Work with addition and subtraction equations.			10.00 MARCH 100
Big Idea	Benchmark: Instructional Essential Standards	Essential Understanding	Vocabulary
Operation Meanings and Relationships: There are multiple interpretations of addition, subtraction, multiplication, and division of rational numbers, and each	1.OA.A.1 Use addition and subtraction within 20 to solve word problems involving situations of adding to, taking from, putting together, taking apart, and comparing with unknowns in all positions.	1-1: Add To 1-2: Put Together 1-3: Both Addends	add, sum, plus, equals, equation, parts, whole.
operation is related to other operations.	1 O.A. D. O. Determines the contractor of another in	Unknown 1 4: Tobo Brom	difference,
	an addition or subtraction equation relating three	1-5: Compare	more, fewer,
Practices, Processes, and Proficiencies: Mathematics content and practices can be	whole numbers.	Situations 1-6: Compare Situations	addend
applied to solve problems.		<u>1-7</u> : Add To <u>1-8</u> : Put Together/	
		Take Apart	
		Arguments	

Mrs. Esarey Mrs. Arnao Mathematics	 Standards for Mathematical Practice: Make sense of problems and persevere in solving them. Reason abstractly and quantitatively. 	em.	
September/October	 Construct viable arguments and critique the reasoning of others. Model with mathematics. 	ng of others.	
Topic 2: Fluently Add and Subtract Within 10	 Use appropriate tools strategically. Attend to precision. Look for and make use of structure. Tool for and make use of structure. 	ŧ	
Domain: Operations and Algebraic Thinking	Story: Addition at the Zoo	io	
Clusters: Add and subtract within 20; Understand and apply properties of operations and the relationship between addition and subtraction; Represent and solve problems involving addition and subtraction.			
Big Idea	Benchmark: Instructional Essential Standards	Essential Understanding	Vocabulary
Numbers and the Number Line: The set of real numbers is infinite and ordered. Whole numbers, integers, and fractions are real numbers. Each real number can be associated with a unique point on the number line. Equivalence: Any number, measure, numerical expression, algebraic expression, or	1.OA.C.5 Relate counting to addition and subtraction. 1.OA.C.6 Add and subtract within 20, demonstrating fluency for addition and subtraction within 10. 1.OA.B.3 Apply properties of operations as strategies to add and subtract. 1.OA.B.4 Understand subtraction as an unknown-addend problem.	2-1: Count on to Add 2-2: Doubles 2-3: Near Doubles 2-4: Facts with 5 on a Ten-Frame 2-5: Add in Any Order to Subtract	number line, doubles fact, near doubles fact
equation can be represented in an infinite number of ways that have the same value.			

Mrs. Esarey Mrs. Arnao Mathematics September/October (Cont.) Topic 2: Fluently Add and Subtract Within 10	 Standards for Mathematical Practice: 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. 	ng of others.	
Big Idea	Benchmark: Instructional Essential Standards	Essential Understanding	Vocabulary
Operation Meanings and Relationships: There are multiple interpretations of addition, subtraction, multiplication, and division of rational numbers, and each operation is related to other operations. Properties: For a given set of numbers there are relationships that are always true, called properties, and these are the rules that govern arithmetic and algebra. Basic Facts and Algorithms: There is more than one algorithm for each of the operations with rational numbers. Some strategies for basic facts and most algorithms for operations with rational numbers, both mental math and paper and pencil, use equivalence to transform calculations into simpler ones. Practices, Processes, and Proficiencies: Mathematics content and practices can be applied to solve problems.	1.OA.A.1 Use addition and subtraction within 20 to solve word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions. 1.OA.D.8 Determine the unknown whole number in an addition or subtraction equation relating three whole numbers.	2-7: Think Addition to Subtract 2-8: Continue to Think Addition to Subtract 2-9: Solve Word Problems with Facts to 10 2-10: Look for and Use Structure	number line, doubles fact fact

Mrs. Esarey Mrs. Arnao Mathematics	 Standards for Mathematical Practice: Make sense of problems and persevere in solving them. Reason abstractly and quantitatively. 	em.	
October/November	 Construct viators arguments and cittique the reasoning of others. Model with mathematics. 	ng or omers.	
Topic 3: Addition Facts to 20: Use Strategies	 Use appropriate tools strategically. Attend to precision. Look for and make use of structure. Look for and express regularity in repeated reasoning. 	Ş	
Domain: Operations and Algebraic Thinking	Story: Monkey Doubles	į.	
Clusters: Add and subtract within 20; Represent and solve problems involving addition and subtraction.			
Big Idea	Benchmark: Instructional Essential Standards	Essential Understanding	Vocabulary
The set of real numbers is infinite and ordered. Whole numbers, integers, and fractions are real numbers. Each real number can be associated with a unique point on the number line. Equivalence: Any number, measure, numerical expression, algebraic expression, or equation can be represented in an infinite number of ways that have the same value. Operation Meanings and Relationships: There are multiple interpretations of addition, subtraction, multiplication, and	1.OA.C.6 Add and subtract within 20, demonstrating fluency for addition and subtraction within 10. 1.OA.A.1 Use addition and subtraction within 20 to solve word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions.	Add 3-2: Count on to Add Using an Open Number Line 3-3: Doubles 1 3-4: Doubles Plus 1 3-5: Doubles Plus 2 3-6: Make 10 to Add Add Add Add Make 10 to Add	line, doubles- plus-1 fact, doubles-plus-2 fact, make 10
operation is related to other operations.		***************************************	

Mrs. Esarey Mrs. Arnao Mathematics October/November (Cont.) Topic 3: Addition Facts to 20: Use Strategies	 Standards for Mathematical Practice: 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. 	em. 1g of others. 1g.	
Big Idea	Benchmark: Instructional Essential Standards	Essential Understanding	Vocabulary
Properties: For a given set of numbers there are relationships that are always true, called properties, and these are the rules that govern arithmetic and algebra. Basic Facts and Algorithms: There is more than one algorithm for each of the operations with rational numbers. Some strategies for basic facts and most algorithms for operations with rational numbers, both mental math and paper and pencil, use equivalence to transform calculations into simpler ones. Practices. Processes, and Proficiencies: Mathematics content and practices can be applied to solve problems.	1.OA.C.5 Relate counting to addition and subtraction. 1.OA.C.6 Add and subtract within 20, demonstrating fluency for addition and subtraction within 10. 1.OA.A.1 Use addition and subtraction within 20 to solve word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions.	3-8: Explain Addition Strategies 3-9: Solve Addition Word Problems with Facts to 20 3-10: Critique Reasoning	open number line, doubles- plus-1 fact, doubles-plus-2 fact, make 10

Mrs. Esarey Mrs. Arnao Mathematics November Topic 4: Subtraction Facts to 20: Use Strategies Domain: Operations and Algebraic Thinking	 Standards for Mathematical Practice: 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. Story: Flying Subtraction 	ng of others.	
Clusters: Add and subtract within 20; Understand and apply properties of operations and the relationship between addition and subtraction; Represent and solve problems involving addition and subtraction.			
Big Idea	Benchmark: Instructional Essential Standards	Essential Understanding	Vocabulary
Numbers and the Number Line: The set of real numbers is infinite and ordered. Whole numbers, integers, and fractions are real numbers. Each real number can be associated with a unique point on the number line. Operation Meanings and Relationships: There are multiple interpretations of addition, subtraction, multiplication, and division of rational numbers, and each operation is related to other operations.	1.OA.C.5 Relate counting to addition and subtraction. 1.OA.C.6 Add and subtract within 20, demonstrating fluency for addition and subtraction within 10. 1.OA.B.4 Understand subtraction as an unknownaddend problem. 1.OA.A.1 Use addition and subtraction within 20 to solve word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions.	4-1: Count on to Add 4-2: Make 10 to Subtract 4-3: Continue to Make 10 to Subtract 4-4: Fact Families 4-5: Use Addition to Subtract 4-6: Continue to Use Addition to Subtract	fact family, related facts

Mrs. Esarey Mrs. Arnao Mathematics November (Cont.) Topic 4: Subtraction Facts to 20: Use Strategies	 Standards for Mathematical Practice: 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. 	em. ng of others.	
Big Idea	Benchmark: Instructional Essential Standards	Essential Understanding	Vocabulary
Properties: For a given set of numbers there are relationships that are always true, called properties, and these are the rules that govern arithmetic and algebra. Basic Facts and Algorithms: There is more than one algorithm for each of the operations with rational numbers. Some strategies for basic facts and most algorithms for operations with rational numbers. both mental math and paper and pencil, use equivalence to transform calculations into simpler ones. Practices, Processes, and Proficiencies: Mathematics content and practices can be applied to solve problems.	1.OA.C.5 Relate counting to addition and subtraction. 1.OA.C.6 Add and subtract within 20, demonstrating fluency for addition and subtraction within 10. 1.OA.B.4 Understand subtraction as an unknownaddend problem. 1.OA.A.1 Use addition and subtraction within 20 to solve word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions.	4-7: Explain Subtraction Strategies 4-8: Solve Word Problems with Facts to 20 4-9: Reasoning	fact family, related facts

Mrs. Esarey Mrs. Arnao Mathematics	 Standards for Mathematical Practice: Make sense of problems and persevere in solving them. Reason abstractly and quantitatively. Construct viable arguments and critique the reasoning of others. 	em. 1g of others.	
November/December	Model with mathematics.Use appropriate tools strategically.		
Topic 5: Work with Addition and Subtraction Equations	 Attend to precision. Look for and make use of structure. Look for and express regularity in repeated reasoning. 	Ь	
Domain: Operations and Algebraic Thinking	Story: Going to the Zoo	.	
Clusters: Work with addition and subtraction equations; Represent and solve problems involving addition and subtraction; Understand and apply properties of operations and the relationship between addition and subtraction.			
Big Idea	Benchmark: Instructional Essential Standards	Essential Understanding	Vocabulary
Equivalence: Any number, measure, numerical expression, algebraic expression, or equation can be represented in an infinite number of ways that have the same value. Operation Meanings and Relationships: There are multiple interpretations of addition, subtraction, multiplication, and	1.OA.D.8 Determine the unknown whole number in an addition or subtraction equation relating three whole numbers. 1.OA.D.7 Understand the meaning of the equal sign, and determine if equations involving addition and subtraction are true or false. 1.OA.A.2 Solve word problems that call for addition of three whole numbers whose sum is less than or equal to 20.	5-1: Find the Unknown Numbers 5-2: True or False Equations 5-3: Make True Equations 5-4: Word Problems with Three Addends 5-5: Add Three	(none)
division of rational numbers, and each operation is related to other operations.			

Mrs. Esarey Mrs. Arnao Mathematics	 Standards for Mathematical Practice: Make sense of problems and persevere in solving them. Reason abstractly and quantitatively. 	hem.	
November/December (Cont.)	 Construct viatic arguments and catalyte are reason. Model with mathematics. 	ing of ourers.	
Topic 5: Work with Addition and Subtraction Equations	 Attend to precision. Look for and make use of structure. Look for and express regularity in repeated reasoning. 	ng.	
Big Idea	Benchmark: Instructional Essential Standards	Essential Understanding	Vocabulary
Properties: For a given set of numbers there are relationships that are always true, called properties, and these are the rules that govern arithmetic and algebra. Variables, Expressions, and Equations: Letters and symbols, called variables, can be used to stand for a number or any number from a particular set of numbers. Some mathematical and real-world situations can be represented using variables, operations, and numbers in expressions and equations. Solving Equations and Inequalities: Rules of arithmetic and algebra can be used together with notions of equivalence to transform equations and inequalities so solutions can be found. Practices, Processes, and Proficiencies: Mathematics content and practices can be applied to solve problems.	1.OA.B.3 Apply properties of operations as strategies to add and subtract. 1.OA.A.1 Use addition and subtraction within 20 to solve word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions.	5-6: Solve Addition and Subtraction Word Problems 5-7: Precision	(none)

Mrs. Esarey Mrs. Arnao Mathematics	 Standards for Mathematical Practice: Make sense of problems and persevere in solving them. Reason abstractly and quantitatively. 	lem.	
December	Construct viable arguments and critique the reasoning of others.Model with mathematics.	ng of others.	
Topic 6: Represent and Interpret Data	 Use appropriate tools strategically. Attend to precision. I out for a factorial of the factorial o		
Domain: Measurement and Data	 Look for and express regularity in repeated reasoning. 	ġ	
Clusters: Represent and interpret data.	Story: Sports Graphs		
Big Idea	Benchmark: Instructional Essential Standards	Essential Understanding	Vocabulary
Comparison and Relationships: Numbers, expressions, measures, and objects can be compared and related to other numbers, expressions, measures, and objects in different ways.	1.MD.C.4 Organize, represent, and interpret data with up to three categories; ask and answer questions about the total number of data points, how many in each category, and how many more or less are in one category than in another.	6-1: Organize Data into Three Categories 6-2: Collect and Represent Data	tally marks, data, tally chart, picture graph, survey
Data Collection and Representation: Some questions can be answered by collecting and analyzing data, and the question to be answered determines the data that need to be collected and how best	1.OA.A.1 Use addition and subtraction within 20 to solve word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions.	6-3: Interpret Data 6-4: Continue to Interpret Data 6-5: Make Sense and Persevere	
to collect the data. Data can be represented visually using tables, charts, and graphs. The type of data determines the best choice of visual representation.	1.OA.A.2 Solve word problems that call for addition of three whole numbers whose sum is less than or equal to 20.		
Practices, Processes, and Proficiencies: Mathematics content and practices can be applied to solve problems.			

	Chandanda for Mathamatical Dungtion	•	
Mrs. Arnao	 Make sense of problems and persevere in solving them. 	severe in solving ther	ü
Mathematics	 Reason abstractly and quantitatively. 	ely.	ofothere
January	• Model with mathematics.		or outcis.
Topic 7: Extend the Counting Sequence	 Use appropriate tools strategically. Attend to precision. 	y.	
Domain: Number and Operations in Base Ten	Look for and make use of structure.Look for and express regularity in repeated reasoning.	re. n repeated reasoning	
Clusters: Extend the counting sequence; Understand place value.	Story: Tens of Ants		
Big Idea	Benchmark: Instructional Essential Standards	Essential Understanding	Vocabulary
Number Uses, Classification, and Representation: Numbers can be used for different purposes, and numbers can be classified and represented in different ways.	1.NBT.B.2c Understand that the two digits of a two-digit number represent amounts of tens and ones.	7-1: Count by 10s to 120 7-2: Count by 1s	hundred chart, tens digit, row, ones digit,
Numbers and the Number Line: The set of real numbers is infinite and ordered. Whole numbers, integers, and fractions are real numbers. Each real number can be associated with a unique point on the number line.	1.NBT.A.1 Extend the counting sequence.	to 120 7-3: Count on a Number Chart to 120 7-4: Count by 1s or 10s to 120	column
The Base-Ten Numeration System: The base-ten numeration system is a scheme for recording numbers using digits 0-9, groups of ten, and place value.		7-5: Count on an Open Number Line	
Equivalence: Any number, measure, numerical expression, algebraic expression, or equation can be represented in an infinite number of ways that have the same value.		7-6: Count and Write Numerals 7-7: Repeated Reasoning	
Patterns, Relations, and Functions: Relationships can be described and generalizations made for mathematical situations that have numbers or objects that repeat in predictable ways. For some relationships, mathematical expressions and equations can be used to describe how members of one set are related to members of a second set.			

Mrs. Esarey Mrs. Arnao Mathematics	 Standards for Mathematical Practice: Make sense of problems and persevere in solving them. Reason abstractly and quantitatively. 	evere in solving therely.	ii .
January	 Construct Viable arguments and critique the reasoning of others. Model with mathematics. 	ititique the reasoning	g ot others.
Topic 8: Understand Place Value	 Attend to precision. 	×	
Domain: Number and Operations in Base Ten	 Look for and make use of structure. Look for and express regularity in repeated reasoning. 	re. n repeated reasoning	
Clusters: Understand place value.	Story: Tens and Ones at the Diner		
Big Idea	Benchmark: Instructional Essential Standards	Essential Understanding	Vocabulary
Number Uses, Classification, and Representation: Numbers can be used for different purposes, and numbers can be classified and represented in different ways.	1.NBT.B.2 Understand that the two digits of a two-digit number represent amounts of tens and ones.	8-1: Make Numbers 11 to 19 8-2: Numbers	tens, ones
Numbers and the Number Line: The set of real numbers is infinite and ordered. Whole numbers, integers, and fractions are real numbers. Each real number can be associated with a unique point on the number line.		Made with Tens 8-3: Count with Groups of Tens and Leftovers 8-4: Tens and	
The Base-Ten Numeration System: The base-ten numeration system is a scheme for recording numbers using digits 0-9, groups of ten, and place value.		8-5: Continue with Tens and Ones	***
Equivalence: Any number, measure, numerical expression, algebraic expression, or equation can be represented in an infinite number of ways that have the same value.		<u>8-6</u> : Look For and Use Structure	
Patterns, Relations, and Functions: Relationships can be described and generalizations made for mathematical situations that have numbers or objects that repeat in predictable ways. For some relationships, mathematical expressions and equations can be used to describe how members of one set are related to members of a second set.		:	

Mrs. Esarey Mrs. Arnao	Standards for Mathematical Practice: • Make sense of problems and persevere in solving them. • Resear abstractly and quantitatively.	severe in solving ther	ü
February	 Construct viable arguments and critique the reasoning of others. Model with mathematics. 	ory. rritique the reasoning	of others.
Topic 9: Compare Two-Digit Numbers	 Use appropriate tools strategically. Attend to precision. 	××	
Domain: Number and Operations in Base Ten	 Look for and make use of structure. Look for and express regularity in repeated reasoning. 	re. n repeated reasoning.	
Clusters: Understand place value; Use place value understanding and properties of operations to add and subtract.	Story: The Store Needs More		
Big laea	Benchmark: Instructional Essential Standards	Essential Understanding	Vocabulary
The Base-Ten Numeration System: The base-ten numeration system is a scheme for recording numbers using digits 0-9, groups of ten, and place value.	1.NBT.C.5 Given a two-digit number, mentally find 10 more or 10 less than the number, without having to count: explain the	9-1: 1 More, 1 Less; 10 More, 10 Less 9-2: Make	less, compare, greater than (>), less than (<)
Comparison and Relationships: Numbers, expressions, measures, and objects can be compared and related to other numbers, expressions, measures, and objects in different ways.	reasoning used. 1.NBT.B.3 Compare two two-digit numbers based on meanings of the tens and ones digits, recording the	Numbers on a Hundred Chart 9-3: Compare Numbers 9-4: Compare	
Patterns, Relations, and Functions: Relationships can be described and generalizations made for mathematical situations that have numbers or objects that repeat in predictable ways. For some relationships, mathematical expressions and equations can be used to describe how members of one set are related to members of a second set.	results of comparisons with the symbols >, =, and <.	Numbers with Symbols 9-5: Compare Numbers on a Number Line 9-6: Make Sense and Persevere	
<u>Practices, Processes, and Proficiencies:</u> Mathematics content and practices can be applied to solve problems.			

Mrs. Esarey Mrs. Arnao	Standards for Mathematical Practice: Make sense of problems and persevere in solving them.	em.	
Mathematics	Reason abstractly and quantitatively.		
February	 Construct viable arguments and chilque the reasoning of others. Model with mathematics. 	ig oi omers.	
Topic 10: Use Models and Strategies to Add Tens and Ones	 Use appropriate tools strategically. Attend to precision. Look for and make use of structure. 		
Domain: Number and Operations in Base Ten	• Look for and express regularity in repeated reasoning. Story: Tens at the Hat Store	හුර	·
Clusters: Use place value understanding and properties of operations to add and subtract.			
Big Idea	Benchmark: Instructional Essential Standards	Essential Understanding	Vocabulary
Number Uses, Classification, and Representation: Numbers can be used for different purposes, and numbers can be classified and represented in different ways. Numbers and the Number Line: The set of real numbers is infinite and ordered. Whole numbers, integers, and fractions are real numbers. Each real number can be associated with a unique point on the number line. The Base-Ten Numeration System: The base-ten numeration system is a scheme for recording numbers using digits 0-9, groups of ten, and place value.	1.NBT.C.4 Add within 100, including adding a two-digit number and a one-digit number, and adding a two-digit number and a multiple of 10, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used. Understand that in adding two-digit numbers, one adds tens and tens, ones and ones; and sometimes it is necessary to compose a ten. 1.NBT.C.5 Given a two-digit number, mentally find 10 more or 10 less than the number, without having to count; explain the reasoning used.	10-1: Add Tens Using Models 10-2: Mental Math: Ten More Than a Number 10-3: Add Tens and Ones Using a Hundred Chart 10-4: Add Tens and Ones Using an Open Number Line Line 10-5: Add Tens and Ones Using Models	(none)

Mrs. Esarey Mrs. Arnao Mathematics February (Cont.) Topic 10: Use Models and Strategies to Add Tens and Ones	 Standards for Mathematical Practice: 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. 	em. 1g of others. .g.	
Big Idea	Benchmark: Instructional Essential Standards	Essential Understanding	Vocabulary
Equivalence: Any number, measure, numerical expression, algebraic expression, or equation can be represented in an infinite number of ways that have the same value. Basic Facts and Algorithms: There is more than one algorithm for each of the operations with rational numbers. Some strategies for basic facts and most algorithms for operations with rational numbers, both mental math and paper and pencil, use equivalence to transform calculations into simpler ones. Practices, Processes, and Proficiencies: Mathematics content and practices can be applied to solve problems.	digit number and a one-digit number, and adding a two-digit number and a one-digit number, and adding a two-digit number and a multiple of 10, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used. Understand that in adding two-digit numbers, one adds tens and tens, ones and ones; and sometimes it is necessary to compose a ten. 1.NBT.C.5 Given a two-digit number, mentally find 10 more or 10 less than the number, without having to count; explain the reasoning used.	10-6: Make a Ten to Add 10-7: Add Using Place Value 10-8: Practice Adding Using Strategies 10-9: Model with Math	(none)

Mrs. Esarey Mrs. Arnao Mathematics	 Standards for Mathematical Practice: Make sense of problems and persevere in solving them. Reason abstractly and quantitatively. Construct viable arguments and critique the reasoning of others. 	lem. ng of others	
March	• Model with mathematics.		
Topic II: Use Models and Strategies to Subtract Tens	 Use appropriate tools strategically. Attend to precision. Look for and make use of structure. Look for and evented regularity in remarked regularity. 	٤	
Domain: Number and Operations in Base Ten	Story: Tens at the Shoe Store	ည့်	
Clusters: Use place value under standing and properties of operations to add and subtract.			
Big Idea	Benchmark: Instructional Essential Standards	Essential Understanding	Vocabulary
Numbers can be used for different purposes, and numbers can be classified and represented in different ways. Numbers and the Number Line: The set of real numbers is infinite and ordered. Whole numbers, integers, and fractions are real numbers, integers, and fractions are real numbers. Each real number can be associated with a unique point on the number line. The Base-Ten Numeration System: The base-ten numeration system is a scheme for recording numbers using digits 0-9, groups of ten, and place value. Equivalence: Any number, measure, numerical	from multiples of 10 in the range 10-90 (positive or zero differences), using concrete models or drawings and strategies based in place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used. 1.NBT.C.5 Given a two-digit number, mentally find 10 more or 10 less than the number, without having to count; explain the reasoning used.	Tens Using Models 11-2: Subtract Tens Using a Hundred Chart 11-3: Subtract Tens Using an Open Number Line 11-4: Use Addition to Subtract Tens	
equation can be represented in an infinite number of ways that have the same value.		74 Fare	

Mrs. Esarey Mrs. Arnao Mathematics March (Cont.) Topic 11: Use Models and Strategies to Subtract Tens	 Standards for Mathematical Practice: 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. 	em. ng of others.	
Big Idea	Benchmark: Instructional Essential Standards	Essential Understanding	Vocabulary
Operation Meanings and Relationships: There are multiple interpretations of addition, subtraction, multiplication, and division of rational numbers, and each operation is related to other operations. Basic Facts and Algorithms: There is more than one algorithm for each of the operations with rational numbers. Some strategies for basic facts and most algorithms for operations with rational numbers. Some strategies for basic facts and most algorithms for operations with rational numbers. Patterns, both mental math and paper and pencil, use equivalence to transform calculations into simpler ones. Patterns, Relations, and Functions: Relationships can be described and generalizations made for mathematical situations that have numbers or objects that repeat in predictable ways. For some relationships, mathematical expressions and equations can be used to describe how members of one set are related to members of a second set. Practices, Processes, and Proficiencies: Mathematics content and practices can be applied to solve problems.	1.NBT.C.6 Subtract multiples of 10 in the range 10-90 from multiples of 10 in the range 10-90 (positive or zero differences), using concrete models or drawings and strategies based in place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used. 1.NBT.C.5 Given a two-digit number, mentally find 10 more or 10 less than the number, without having to count; explain the reasoning used.	Math: Ten Less Than a Number 11-6: Use Strategies to Practice Subtraction 11-7: Model with Math	(none)

Mrs. Arnao Mathematics March Topic 12: Measure Lengths Domain: Measurement and Data	 Standards for Mathematical Practice: 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. 	em. ng of others. ng.	
Clusters: Measure lengths indirectly and by iterating length units.	Story: Help Us Measure		
Big Idea	Benchmark: Instructional Essential Standards	Essential Understanding	Vocabulary
Comparison and Relationships: Numbers, expressions, measures, and objects can be compared and related to other numbers, expressions, measures, and objects in different ways. Measurement: Some attributes of objects are measurable and can be quantified using unit amounts. Practices, Processes, and Proficiencies: Mathematics content and practices can be applied to solve problems.	1.MD.A.1 Order three objects by length; compare the lengths of two objects indirectly by using a third object. 1.MD.A.2 Express the length of an object as a whole number of length units, by laying multiple copies of a shorter object (the length unit) end to end; understand that the length measurement of an object is the number of same-size length units that span it with no gaps and overlaps.	12-1: Compare and Order by Length 12-2: Indirect Measurement 12-3: Use Units to Measure Length 12-4: Continue to Measure Length 12-5: Use Appropriate Tools	length, longer, longest, shorter, shortest, measure, length unit

Mrs. Esarey Mrs. Arnao Mathematics March/April Topic 13: Time Domain: Measurement and Data Clusters: Tell and write time. Big Idea Measurement: Some attributes of objects are measurable and can be quantified using unit amounts.	Standards for Mathematical Practice: • Make sense of problems and persevere in solving them. • Reason abstractly and quantitatively. • Construct viable arguments and critique the reasoning of others. • Wodel with mathematics. • Use appropriate tools strategically. • Attend to precision. • Look for and make use of structure. • Look for and express regularity in repeated reasoning. Story: Parade Time Benchmark: Benchmark: Chaderstan Understan 1.MD.B.3 Tell and write time in hours and half-hours in Minute Han Minute Han Minute Han Minute Han Hour Time Hour	em. ig of others. Essential Understanding 13-1: Understand the Hour and Minute Hands 13-2: Tell and Write Time to the Hour	Vocabulary Vocabulary hour, hour hand, minute, minute hand, o'clock, half hour
<u>Practices, Processes, and Proficiencies:</u> Mathematics content and practices can be applied to solve problems.		Write Time to the Half Hour 13-4: Reasoning	

Mrs. Esarey Mrs. Arnao Mathematics April/May Topic 14: Reason with Shapes and Their Attributes Domain: Geometry Clusters: Reason with shapes and their attributes.	 Standards for Mathematical Practice: 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. Story: On My Way to School 	lving them. reasoning of others. reasoning.	
Big Idea	Benchmark: Instructional Essential Standards	Essential Understanding	Vocabulary
Geometric Figures: Two- and three- dimensional objects with or without curved surfaces can be described, classified, and analyzed by their attributes. An object's location in space can be described quantitatively. Practices, Processes, and Proficiencies: Mathematics content and practices can be applied to solve problems.	1.G.A.1 Distinguish between defining attributes versus non-defining attributes; build and draw shapes to possess defining attributes. 1.G.A.2 Compose two-dimensional shapes or three-dimensional shapes to create a composite shape, and compose new shapes from the composite shape.	14-1: Use Attributes to Define Two-Dimensional Shapes 14-2: Defining and Non-Defining Attributes of 2-D Shapes 14-3: Build and Draw 2-D Shapes by Attributes 14-4: Compose 2-D Shapes from 2-D Shapes from 2-D Shapes 14-6: Use Attributes to Define Three-Dimensional Shapes 14-7: Defining and Non-Defining Attributes of 3-D Shapes Shapes 14-8: Compose with 3-D Shapes 14-8: Compose with 3-D Shapes	2-D shapes, sides, vertices, edges, faces, flat surface, rectangular prism, threedimensional (3-D) shapes

Mrs. Esarey Mrs. Arnao Mathematics May Topic 15: Equal Shares of Circles and Rectangles Domain: Geometry Clusters: Reason with shapes and their attributes.	 Standards for Mathematical Practice: 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. Story: Food Fractions 	em. ng of others. 1g.	
Big Idea	Benchmark: Instructional Essential Standards	Essential Understanding	Vocabulary
Comparison and Relationships: Numbers, expressions, measures, and objects can be compared and related to other numbers, expressions, measures, and objects in different ways. Geometric Figures: Two- and three- dimensional objects with or without curved surfaces can be described, classified, and analyzed by their attributes. An object's location in space can be described quantitatively. Practices, Processes, and Proficiencies: Mathematics content and practices can be applied to solve problems.	1.G.A.3 Partition circles and rectangles into two and four equal shares, describe the shares using the words halves, fourths, and quarters, and use the phrases half of, fourth of, and quarter of. Describe the whole as two of, or four of the shares. Understand for these examples that decomposing into more equal shares creates smaller shares.	15-1: Make Equal Shares 15-2: Make Halves and Fourths of Rectangles and Circles 15-3: Understand Halves and Fourths Math Math	equal shares, halves, fourths, quarters