Grade Leve	I/Course Tit	le: Grade 2	Trimester 1	Academic Year: 2017-2018				
Grade Level M In Grade 2, ins subtraction; (3)	Frade Level Mathematics Focus: In Grade 2, instructional time should focus on four critical areas: (1) extending understanding of base-ten notation; (2) building fluency with addition and Subtraction; (3) using standard units of measure; and (4) describing and analyzing shapes.							
 Essential Questions: 1. How can students extend their understanding of the base-ten system, including ideas of counting in fives, tens, and multiples of hundreds, tens, and ones as well as number relationships involving these units, including comparing? 2. How can students understand multi-digit numbers (up to 1000) written in base-ten notation, recognizing that the digits in each place represent amounts o thousands, hundreds, tens, or ones (e.g., 853 is 8 hundreds + 5 tens + 3 ones)? Suggestions: Release groups for recess, P.E., or lunch according to the days date to help with odd/even number understanding. All word problems should utilize the 3 Read strategies and have a visual representation of the problem. Use the addition and subtraction strategies when teaching. Choral facts of what makes 5, 10 and 20 and counting by 2's, 5's, and 10's. Integrate math language all day to show its importance. Use Base 10 blocks regularly. 								
Time Frame	Standard	Standard Description	Content	Resources				
(AugSept.) Chapter 1: Apply Addition and	2.OA.1	Use addition and subtraction within 100 to solve one- and two-step word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.	 Using open number lines and bar models with single digit numbers Decomposition by place value Decomposition of whole numbers by addition 	Chapter 1 – Apply Addition and Subtraction Concepts (13 Lessons) 1-1: Addition Properties 1-2: Count On to Add 1-3: Doubles and Near Doubles 1-4: Make a 10 1-5: Add Three Numbers 1-6: Problem Solving Strategy: Write a Number Sentence				
Subtraction Concepts	2.OA.2	Fluently add and subtract within 20 using mental strategies. By end of Grade 2, know from memory all sums of two one-digit numbers.	 addition Using decomposition to add and subtract whole numbers Using open number lines to represent multi-digit addition and subtraction Using bar models to add and subtract multi- digit numbers Inverse relationship 	 Addition Using decomposition to add and subtract whole numbers Using open number lines to represent multi-digit addition and subtraction Using bar models to add and subtract multi- digit numbers Using bar models to add and subtract multi- digit numbers Using bar models to add and subtract multi- digit numbers Inverse relationship Using bar models to add and subtract multi- digit numbers Using bar models to adding and Subtracting Within 100 [L] Represent Unknowns Using Multiple Method 	 1-6. Froblem-Solving Strategy. White a Number Sentence 1-7: Count Back to Subtract 1-8: Subtract All and Subtract Zero 1-9: Use Doubles to Subtract 1-10: Relate Addition and Subtraction 			
(Approx. 20 days)	2.OA.3	Determine whether a group of objects (up to 20) has an odd or even number of members, e.g., by pairing objects or counting them by 2s; write an equation to express an even number as a sum of two equal addends.			 lines to represent multi-digit addition and subtraction Using bar models to add and subtract multi- digit numbers Inverse relationship 1-11: Missing Addends 1-12: Fact Families 1-13: Two-Step Word Problems <u>3 Read Word Problem Strategy</u> <u>Adding and Subtracting Within 100 [L]</u> <u>Represent Unknowns Using Multiple N</u> 	1-11: Missing Addends 1-12: Fact Families 1-13: Two-Step Word Problems <u>3 Read Word Problem Strategy</u> <u>Adding and Subtracting Within 100</u> [L] <u>Represent Unknowns Using Multiple Methods</u> [L] <u>Adding By Finding Tens</u> [L]		
	2.OA.4	Use addition to find the total number of objects arranged in rectangular arrays with up to 5 rows and up to 5 columns; write an equation to express the total as a sum of equal addends.	 between addition and subtraction Commutative and associative properties of addition 	Even and Odd: A Conceptual Understanding [L] Adding/Subtraction Daily Practices Building toward fluency [IMT] Hitting The Target Number [IMT] Addition/Subtraction Strategies K-7 Addition/Subtraction Game PIG (GMR)				

Grude 2 Mathematics Curriculum Guide												
Grade Level	/Course Tit	e: Grade 2		Trimester 1	Academic Year: 2017-2018							
Grade Level M In Grade 2, inst subtraction; (3)	Frade Level Mathematics Focus: In Grade 2, instructional time should focus on four critical areas: (1) extending understanding of base-ten notation; (2) building fluency with addition and subtraction; (3) using standard units of measure; and (4) describing and analyzing shapes.											
Essential Questions: See page 1 Suggestions: Put a number in your warm up asking for all the ways to look at it. 24 = 2T 4ones, 1T 14 ones, 24 ones. Use the mental math strategies from Addition and Subtraction Strategies K-7(see pg. 1 hyperlink). Have them build an equation, draw the equation and then write a problem for the equation. Use My Math games and songs online and the games under Resources. Have students turn to a partner and explain a problem, define a math term, decide what operation is necessary in a word problem, etc. Use manipulatives often. Mark appropriate previewed external sources with sticky notes in your T.E.												
Time Frame	Standard	Standard Description		Content	Resources							
(SeptOct.) Chapter 2: Number Patterns	2.OA.1 2.OA.2	Use addition and subtraction within 100 to solve one- and two-step word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem. Fluently add and subtract within 20	•	Using open number lines and bar models with single digit numbers Decomposition by place value Decomposition of whole numbers by addition Using decomposition	Chapter 2 – Number Patterns (7 Lessons) 2-1: Skip Count on a Hundred Chart 2-2: Skip Count by 2s, 5s, and 10s 2-3: Problem-Solving Strategy: Find a Pattern 2-4: Repeated Addition 2-5: Repeated Addition with Arrays 2-6: Even and Odd 2-7: Sums of Equal Numbers							
(Approx		using mental strategies. By end of Grade 2, know from memory all sums of two one-digit numbers.	•	to add and subtract whole numbers Using open number	Adding and Subtracting — Inverse Operations [L] Fact Families [L]							
12 days)	2.OA.3	Determine whether a group of objects (up to 20) has an odd or even number of members, e.g., by pairing objects or counting them by 2s; write an equation to express an even number as a sum of two equal addends.		 Osing open number lines to represent multi-digit addition and subtraction Using bar models to add and subtract multi-digit numbers Inverse relationship between addition and subtraction Commutative and associative properties of addition 	 lines to represent multi-digit addition and subtraction Using bar models to add and subtract multi-digit numbers Inverse relationship between addition and subtraction Commutative and associative properties of addition 	 multi-digit addition and subtraction Using bar models to add and subtract multi-digit numbers 	 multi-digit addition and subtraction Using bar models to add and subtract multi-digit numbers 	 multi-digit addition and subtraction Using bar models to add and subtract multi-digit numbers 	 multi-digit addition and subtraction Using bar models to add and subtract multi-digit numbers 	 Ines to represent multi-digit addition and subtraction Using bar models to add and subtract multi-digit numbers 	 Ines to represent multi-digit addition and subtraction Using bar models to add and subtract multi-digit numbers 	Buttons odd and even [IMT] Counting Dots in Arrays [IMT] Red and Blue Tiles [IMT]
	2.OA.4	Use addition to find the total number of objects arranged in rectangular arrays with up to 5 rows and up to 5 columns; write an equation to express the total as a sum of equal addends.	•			<u>Five Steps to Zero (</u> GMR) <u>Addition/Subtraction Strategies</u> <u>K-7</u> <u>Addition/Subtraction Game</u> <u>PIG</u> (GMR)						

Grade Level	/Course Tit	le: Grade 2	Trimester 1	Academic Year: 2017-2018																
Grade Level M In Grade 2, inst subtraction; (3)	athematics For ructional time substance	ocus: should focus on four critical areas: (1) d units of measure; and (4) describing	extending understanding of and analyzing shapes.	base-ten notation; (2) building fluency with addition and																
Essential Ques Suggestions:	stions: See pa	age 1																		
Time Frame	Standard	Standard Description	Content	Resources																
(Oct.)	2.OA.1	Use addition and subtraction within 100 to solve one- and two-step word problems involving situations of adding to taking from putting	 Using open number lines and bar models with single digit 	Chapter 3 – Add Two-Digit Numbers (7 Lessons) 3-1: Take Apart Tens to Add																
Chapter 3:	Add Two-adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.numbers3 place value3 place valueAdd Two-adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.adding to, taking from, putting numbersadding to, taking from, putting numbersadding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.addition3	 3-2: Regroup Ones as Tens 3-3: Add to a Two-Digit Number 3-4: Add Two-Digit Numbers 3-5: Rewrite Two-Digit Addition 3-6: Add Three and Four Two-Digit Numbers 3-7: Broblem Solving Strategy: Make a Model 																		
Digit Numbers	2.OA.2	Fluently add and subtract within 20 using mental strategies. By end of Grade 2, know from memory all sums of two one-digit numbers.	 Using decomposition to add and subtract whole numbers Using open number lines to represent multi-digit addition and subtraction Using bar models to add and subtract multi-digit numbers 	 Using decomposition to add and subtract whole numbers Using open number lines to represent multi-digit addition and subtraction Using bar models to add and subtract multi-digit numbers 	 Using decomposition to add and subtract whole numbers Using open number lines to represent multi-digit addition and subtraction Using bar models to add and subtract multi-digit numbers 	 Using decomposition to add and subtract whole numbers Using open number lines to represent multi-digit addition and subtraction Using bar models to add and subtract multi-digit numbers 	 Using decomposition to add and subtract whole numbers Using open number lines to represent multi-digit addition and subtraction Using bar models to add and subtract multi-digit numbers 	 Using decomposition to add and subtract whole numbers Using open number lines to represent multi-digit addition and subtraction Using bar models to add and subtract multi-digit numbers 	 Using decomposition to add and subtract whole numbers Using open number lines to represent multi-digit addition and subtraction Using bar models to add and subtract multi-digit numbers 	 Using decomposition to add and subtract whole numbers Using open number lines to represent multi-digit addition and subtraction Using bar models to add and subtract multi-digit numbers 	 Using decomposition to add and subtract whole numbers Using open number lines to represent multi-digit addition and subtraction Using bar models to add and subtract multi-digit numbers 	 Using decomposition to add and subtract whole numbers Using open number lines to represent multi-digit addition and subtraction Using bar models to add and subtract multi-digit numbers 	 Using decomposition to add and subtract whole numbers Using open number lines to represent multi-digit addition and subtraction Using bar models to add and subtract multi-digit numbers 	 Using decomposition to add and subtract whole numbers Using open number lines to represent multi-digit addition and subtraction Using bar models to add and subtract multi-digit numbers 	 Using decomposition to add and subtract whole numbers Using open number lines to represent multi-digit addition and subtraction Using bar models to add and subtract multi-digit numbers 	 Using decomposition to add and subtract whole numbers Using open number lines to represent multi-digit addition and subtraction Using bar models to add and subtract multi-digit numbers 	 Using decomposition to add and subtract whole numbers Using open number lines to represent multi-digit addition and subtraction Using bar models to add and subtract multi-digit numbers Using bar models to add and subtract multi-digit numbers 	 Using decomposition to add and subtract whole numbers Using open number 	 Using decomposition to add and subtract whole numbers Using open number 	<u>A Pencil and a Sticker</u> [IMT] Suggested things to do in the weeks before the test
(Approx.	2.OA.3	Determine whether a group of objects (up to 20) has an odd or even number of members, e.g., by pairing objects or counting them by 2s; write an equation to express an even number as a sum of two equal addends.																Extended Response Tests in Assessment Masters Book or use problems from Chapter tests SBAC Assessment Book (provides insight on students constructing their responses and practice in justifying their answers.). Use questions from the tests as warm ups, chapter practice, exit tickets after a new lesson, or as problems in a quiz you make		
i sudysj	2.OA.4	Use addition to find the total number of objects arranged in rectangular arrays with up to 5 rows and up to 5 columns; write an equation to express the total as a sum of equal addends.	 Inverse relationship between addition and subtraction Commutative and associative properties of addition 	My Math! Common Assessment 1																

Grade Leve	/Course Tit	le: Grade 2	Trimester 1	Academic Year: 2017-2018				
Grade Level M In Grade 2, inst subtraction; (3)	irade Level Mathematics Focus: ι Grade 2, instructional time should focus on four critical areas: (1) extending understanding of base-ten notation; (2) building fluency with addition and ubtraction; (3) using standard units of measure; and (4) describing and analyzing shapes.							
 Essential Questions: 1. How can students extend their understanding of the base-ten system, including ideas of counting in fives, tens, and multiples of hundreds, tens, and ones, as well as number relationships involving these units, including comparing? 2. How can students understand multi-digit numbers (up to 1000) written in base-ten notation, recognizing that the digits in each place represent amounts of thousands, hundreds, tens, or ones (e.g., 853 is 8 hundreds + 5 tens + 3 ones)? 								
Time Frame	Standard	Standard Description	Content	Resources				
(OctNov.) Chapter 4: Subtract Two-Digit Numbers	2.OA.1 2.OA.2	Use addition and subtraction within 100 to solve one- and two-step word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem. Fluently add and subtract within 20 using mental strategies. By end of Grade 2, know from memory all sums of two one-digit numbers.	 Using open number lines and bar models with single digit numbers Decomposition by place value Decomposition of whole numbers by addition Using decomposition to add and subtract whole numbers Using open number lines to represent 	Chapter 4 – Subtract Two-Digit Numbers (9 Lessons) 4-1: Two-Digit Fact Families 4-2: Take Apart Tens to Subtract 4-3: Regroup a Ten as Ones 4-4: Subtract From a Two-Digit Number 4-5: Subtract Two-Digit Numbers 4-6: Rewrite Two-Digit Subtraction 4-7: Check Subtraction 4-8: Problem-Solving Strategy: Write a Number Sentence 4-9: Two-Step Word Problems Five Steps to Zero (GMR)				
(Approx. 14 days)	2.OA.3 2.OA.4	Determine whether a group of objects (up to 20) has an odd or even number of members, e.g., by pairing objects or counting them by 2s; write an equation to express an even number as a sum of two equal addends. Use addition to find the total number of objects arranged in rectangular arrays with up to 5 rows and up to 5 columns; write an equation to express the total as a sum of equal addends.	whole numbers Using open number lines to represent multi-digit addition and subtraction Using bar models to add and subtract multi-digit numbers Inverse relationship between addition and subtraction Commutative and associative properties of addition	Suggested things to do in the weeks before the test Extended Response Tests in Assessment Masters Book or use problems from Chapter tests SBAC Assessment Book (provides insight on students constructing their responses and practice in justifying their answers.). Use questions from the tests as warm ups, chapter practice, exit tickets after a new lesson, or as problems in a quiz you make				

Grade Level	/Course Tit	le: Grade 2	Trimester 2	Academic Year: 2017-2018			
Grade Level Mathematics Focus: In Grade 2, instructional time should focus on four critical areas: (1) extending understanding of base-ten notation; (2) building fluency with addition and subtraction; (3) using standard units of measure; and (4) describing and analyzing shapes.							
 Essential Ques How can structure 	stions: udents use the udents learn to t, accurate, an and the prope udents select a for numbers w	eir understanding of addition to develop flue o solve problems within 1000 by applying the od generalizable methods to compute sums erties of operations? and accurately apply methods that are app with only tens or only hundreds?	ency with addition and subtract heir understanding of models fo s and differences of whole num propriate for the context and the	ion within 100? or addition and subtraction, and develop, discuss, and bers in base-ten notation, using their understanding of a numbers involved to mentally calculate sums and			
Time Frame	Standard	Standard Description	Content	Resources			

(Nov Dec.) Chapter 5: Place Value	2.NBT.1	 Understand that the three digits of a three-digit number represent amounts of hundreds, tens, and ones; e.g., 706 equals 7 hundreds, 0 tens, and 6 ones. Understand the following as special cases: a. 100 can be thought of as a bundle of ten tens — called a "hundred." b. The numbers 100, 200, 300, 400, 500, 600, 700, 800, 900 refer to one, two, three, four, five, six, seven, eight, or nine hundreds (and 0 tens and 0 ones). 	 Decomposition by place value and within place values Open number lines Bar models Inverse relationship between addition and subtraction with multi- digit numbers Commutative and associative properties of addition 	 Decomposition by place value and within place values Open number lines Bar models Inverse relationship between addition and subtraction with multidigit numbers Commutative and 	Chapter 5 – Place Value to 1.000 (7 Lessons) 5-1: Hundreds 5-2: Hundreds, Tens, and Ones 5-3: Place Value to 1,000 5-4: Problem-Solving Strategy: Use Logical Reasoning 5-5: Read and Write Numbers to 1,000 5-6: Count by 5s, 10s, and 100s 5-7: Compare Numbers to 1,000
to 1,000	2.NBT.2	Count within 1000; skip-count by 2s , 5s, 10s, and 100s. CA		Largest Number Game [IMT] Looking at Numbers Every Which Way [IMT] Digits 2-5-7 [IMT]	
(Approx.	2.NBT.3	Read and write numbers to 1000 using base-ten numerals, number names, and expanded form.		Number Line Comparisons [IMT]	
15 days)	2.NBT.4	Compare two three-digit numbers based on meanings of the hundreds, tens, and ones digits, using >, =, and < symbols to record the results of comparisons.			

Grade Level	/Course Ti	tle: Grade 2	Trimester 2	Academic Year: 2017-2018			
Grade Level M In Grade 2, inst subtraction; (3)	Frade Level Mathematics Focus: In Grade 2, instructional time should focus on four critical areas: (1) extending understanding of base-ten notation; (2) building fluency with addition and subtraction; (3) using standard units of measure; and (4) describing and analyzing shapes.						
Essential Ques Suggestions:	stions: See p Use the game General Reso	age 5 es Pig and Five Steps To Zero for practice. Onl ources.	ine instructions prov	vided under the Instructional tab, Math Dept.,			
Time Frame	Standard	Standard Description	Content	Resources			
(DecJan.)	2.NBT.5	Fluently add and subtract within 100 using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction.	 Decomposition by place value and within place values 	Chapter 6 – Add Three-Digit Numbers (8 Lessons) 6-1: Make a Hundred to Add 6-2: Add Hundreds			
Chapter 6:	2.NBT.6	Add up to four two-digit numbers using strategies based on place value and properties of operations.	 Open number lines Bar models 	6-3: Mentally Add 10 or 100 6-4: Regroup Ones to Add 6-5: Regroup Tens to Add			
Add Three- Digit Numbers (Approx. 18 days)	2.NBT.7	Add and subtract within 1000, 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. Understand that in adding or subtracting three-digit numbers, one adds or subtracts hundreds and hundreds, tens and tens, ones and ones; and sometimes it is necessary to compose or decompose tens or hundreds. 7.1 Use estimation strategies to make reasonable estimates in problem solving. CA	 Bar models Inverse relationship between addition and subtraction with multi-digit numbers Commutative and associative properties of 	6-6: Add Three-Digit Numbers 6-7: Rewrite Three-Digit Numbers 6-8: Problem-Solving Strategy: Guess, Check, and Revise Adding Whole Numbers — Multiple Algorithms [L] Adding and Subtracting Whole Numbers — Multiple Representations [CP] Subtracting Whole Numbers — Multiple Methods [L] Subtracting Multiple Ways, With or Without Regrouping [L]			
	2.NBT.8	Mentally add 10 or 100 to a given number 100–900, and mentally subtract 10 or 100 from a given number 100–900.	addition	Subtraction — Comparison Model [L] <u>Multi-Step Word Problems</u> [L] <u>Adding By Finding Tens</u> [L] Sums to 10, 100, and 1,000 [L]			
	2.NBT.9	Explain why addition and subtraction strategies work, using place value and the properties of operations.		Toll Bridge Puzzle [IMT] Peyton and Presley Discuss Addition [IMT] My Math! Common Assessment 2			

Grade Level	/Course Tit	tle: Grade 2	Trimester 2	Academic Year: 2017-2018			
Grade Level M In Grade 2, inst subtraction; (3)	Frade Level Mathematics Focus: an Grade 2, instructional time should focus on four critical areas: (1) extending understanding of base-ten notation; (2) building fluency with addition and subtraction; (3) using standard units of measure; and (4) describing and analyzing shapes.						
 Essential Ques How can stu How can stu use efficient place value How can stu differences 	tions: udents use the udents learn t accurate, ar and the prop udents select for numbers v	eir understanding of addition to develop fluency wi o solve problems within 1000 by applying their und nd generalizable methods to compute sums and d erties of operations? and accurately apply methods that are appropriate with only tens or only hundreds?	ith addition and subtra derstanding of models ifferences of whole nu e for the context and t	action within 100? s for addition and subtraction, and develop, discuss, and umbers in base-ten notation, using their understanding of the numbers involved to mentally calculate sums and			
Time Frame	Standard	Standard Description	Content	Resources			
(Jan Feb.)	2.NBT.5	Fluently add and subtract within 100 using strategies based on place value, properties of operations, and/ or the relationship between addition and subtraction.	 Decomposition by place value and within 	Chapter 7 – Subtract Three-Digit Numbers (9 Lessons) 7-1: Take Apart Hundreds to Subtract			
Chapter 7:	2.NBT.6	Add up to four two-digit numbers using strategies based on place value and properties of operations.	place valuesOpen number lines	7-2: Subtract Hundreds 7-3: Mentally Subtract 10 or 100 7-4: Regroup Tens			
Subtract Three-Digit Numbers (Approx.	2.NBT.7	Add and subtract within 1000, 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. Understand that in adding or subtracting three-digit numbers, one adds or subtracts hundreds and hundreds, tens and tens, ones and ones; and sometimes it is necessary to compose or decompose tens or hundreds. 7.1 Use estimation strategies to make reasonable estimates in problem solving. CA	 Bar models Inverse relationship between addition and subtraction with multi-digit numbers Commutative and 	 7-5: Regroup Hundreds 7-6: Subtract Three-Digit Numbers 7-7: Rewrite Three-Digit Subtraction 7-8: Problem-Solving Strategy: Write a Number Sentence 7-9: Subtract Across Zeros Adding Whole Numbers — Multiple Algorithms [L] Adding and Subtracting Whole Numbers — Multiple Representations [CP] Subtracting Whole Numbers — Multiple Methods [L] Subtracting Multiple Mays, With or Without Pagrouping [L]			
14 days)	2.NBT.8	Mentally add 10 or 100 to a given number 100–900, and mentally subtract 10 or 100 from a given number 100–900.	associative properties of addition	<u>Comparing Numbers</u> [L] <u>Subtraction — Comparison Model</u> [L] <u>Multi-Step Word Problems</u> [L] <u>Suggested things to do in the weeks before the test</u>			
	2.NBT.9	Explain why addition and subtraction strategies work, using place value and the properties of operations.		Extended Response Tests in Assessment Masters Book or use problems from Chapter tests SBAC Assessment Book (provides insight on students constructing their responses and practice in justifying their answers.). Use questions from the tests as warm ups, chapter practice, exit tickets after a new lesson, or as problems in a quiz you make			

Grade Level	Course Tit	le: Grade 2	Trimest	er 2	Academic Year: 2017-2018		
Grade Level M In Grade 2, inst subtraction; (3)	Frade Level Mathematics Focus: n Grade 2, instructional time should focus on four critical areas: (1) extending understanding of base-ten notation; (2) building fluency with addition and subtraction; (3) using standard units of measure; and (4) describing and analyzing shapes.						
 Essential Questions: 1. How can students learn to solve problems within 1000 by applying their understanding of models for addition and subtraction, and develop, discuss, and use efficient, accurate, and generalizable methods to compute sums and differences of whole numbers in base-ten notation, using their understanding of place value and the properties of operations? 2. How can students recognize the need for standard units of measure (centimeter and inch) and use rulers and other measurement tools with the understanding that linear measure involves an iteration of units? 3. How can students recognize that the smaller the unit, the more iterations they need to cover a given length? 							
Time Frame	Standard	Standard Description	Conte	nt	Resources		
(Feb)	2.MD.7	Tell and write time from analog and digital clocks to the nearest five minutes, using a.m. and p.m. Know relationships of time (e.g., minutes in an hour, days in a month, weeks in a year). CA	 Decomp by place and with place va 	osition value in lue as	<u>Chapter 8 – Money (5 Lessons</u>) 8-1: Pennies, Nickels, and Dimes 8-2: Quarters		
Chapter 8: Money	2.MD.8	Solve word problems involving dollar bills, quarters, dimes, nickels, and pennies, using \$ and ¢ symbols appropriately. <i>Example: If you</i> <i>have 2 dimes and 3 pennies, how many cents</i> <i>do you have?</i>	a strateg add or s • Represe addition subtracti	y to ubtract nting and on in	8-3: Count Coins 8-4: Problem-Solving Strategy: Act It Out 8-5: Dollars Line Plots Using Measurement [L]		
(Approx. 9 days)	2.MD.9	Generate measurement data by measuring lengths of several objects to the nearest whole unit, or by making repeated measurements of the same object. Show the measurements by making a line plot, where the horizontal scale is marked off in whole-number units.	 multiple e.g., bar models a open nul lines Concept iterating 	ways, and mber of	<u>Graphing in the Primary Grades</u> [L] <u>Pet Shop</u> [IMT] <u>Three Reads for Word Problems</u> (GMR)		
	2.MD.10	Draw a picture graph and a bar graph (with single-unit scale) to represent a data set with up to four categories. Solve simple put-together, take-apart, and compare problems using information presented in a bar graph.	for measure Solving v problem based of in a grap	ement word s n data oh			

Grade Level	Course Tit	le: Grade 2		Trimester 3	Academic Year: 2017-2018		
Grade Level M a In Grade 2, instr subtraction; (3)	Frade Level Mathematics Focus: Or Grade 2, instructional time should focus on four critical areas: (1) extending understanding of base-ten notation; (2) building fluency with addition and Subtraction; (3) using standard units of measure; and (4) describing and analyzing shapes.						
 Essential Questions: 1. How can students learn to solve problems within 1000 by applying their understanding of models for addition and subtraction, and develop, discuss, and use efficient, accurate, and generalizable methods to compute sums and differences of whole numbers in base-ten notation, using their understanding of place value and the properties of operations? 2. How can students recognize the need for standard units of measure (centimeter and inch) and use rulers and other measurement tools with the understanding that linear measure involves an iteration of units? 3. How can students recognize that the smaller the unit, the more iterations they need to cover a given length? 							
Time Frame	Standard	Standard Description		Content	Resources		
(Mar.) Chapter 9:	2.MD.7 2.MD.8	Tell and write time from analog and digital clocks to the nearest five minutes, using a.m. and p.m. Know relationships of time (e.g., minutes in an hour, days in a month, weeks in a year). CA Solve word problems involving dollar bills, quarters, dimes, nickels, and pennies, using \$ and ¢ symbols appropriately. <i>Example: If you</i>	•	Decomposition by place value and within place value as a strategy to add or subtract Representing addition and	Chapter 9 – Data Analysis (8 Lessons) 9-1: Take a Survey 9-2: Make Picture Graphs 9-3: Analyze Picture Graphs 9-4: Make Bar Graphs 9-5: Analyze Bar Graphs 9-6: Problem-Solving Strategy: Make a Table		
Data Analysis		have 2 dimes and 3 pennies, how many cents do you have?		subtraction in multiple ways,	9-7: Make Line Plots 9-8: Analyze Line Plots		
(Approx.	2.MD.9	Generate measurement data by measuring lengths of several objects to the nearest whole unit, or by making repeated measurements of the same object. Show the measurements by making a line plot, where the horizontal scale is marked off in whole-number units.	•	e.g., bar models and open number lines Concept of iterating a unit	Line Plots Using Measurement [L] Graphing in the Primary Grades [L] My Math! Common		
12 days)	2.MD.10	Draw a picture graph and a bar graph (with single-unit scale) to represent a data set with up to four categories. Solve simple put-together, take-apart, and compare problems using information presented in a bar graph.	•	for measurement Solving word problems based on data in a graph	Aśsessment 3		

Grade 2 Mathematics Curriculum Guide

Grade Level/Course Title: Grade 2 Trimester 3 Academic Year: 2017-2018 Grade Level Mathematics Focus: In Grade 2, instructional time should focus on four critical areas: (1) extending understanding of base-ten notation; (2) building fluency with addition and subtraction; (3) using standard units of measure; and (4) describing and analyzing shapes. **Essential Questions:** 1. How can students learn to solve problems within 1000 by applying their understanding of models for addition and subtraction, and develop, discuss, and use efficient, accurate, and generalizable methods to compute sums and differences of whole numbers in base-ten notation, using their understanding of place value and the properties of operations? 2. How can students recognize the need for standard units of measure (centimeter and inch) and use rulers and other measurement tools with the understanding that linear measure involves an iteration of units? 3. How can students recognize that the smaller the unit, the more iterations they need to cover a given length? **Time Frame** Standard **Standard Description** Content Resources Tell and write time from analog and digital clocks Chapter 10 - Time (6 Lessons) 2.MD.7 Decomposition (Mar.-Apr.) to the nearest five minutes, using a.m. and p.m. by place value Know relationships of time (e.g., minutes in an and within 10-1: Time to the Hour hour, days in a month, weeks in a year). CA place value as 10-2: Time to the Half Hour 10-3: Problem-Solving Strategy: Find a Pattern a strategy to Chapter 10: 2.MD.8 Solve word problems involving dollar bills, add or subtract 10-4: Time to the Quarter Hour quarters, dimes, nickels, and pennies, using \$ • Representing 10-5: Time to Five Minute Intervals and ¢ symbols appropriately. Example: If you addition and 10-6: A.M. and P.M. have 2 dimes and 3 pennies, how many cents subtraction in Time do vou have? multiple ways, 2.MD.9 Generate measurement data by measuring e.g., bar Line Plots Using Measurement [L] lengths of several objects to the nearest whole Graphing in the Primary Grades [L] models and unit, or by making repeated measurements of open number (Approx. the same object. Show the measurements by lines Suggested things to do in the weeks before the test making a line plot, where the horizontal scale is Concept of Extended Response Tests in Assessment Masters Book or marked off in whole-number units. 11 days) iterating a unit use problems from Chapter tests SBAC Assessment Book for (provides insight on students constructing their responses 2.MD.10 Draw a picture graph and a bar graph (with measurement single-unit scale) to represent a data set with up and practice in justifying their answers.). Use guestions from Solving word to four categories. Solve simple put-together, the tests as warm ups, chapter practice, exit tickets after a problems take-apart, and compare problems using new lesson, or as problems in a guiz you make information presented in a bar graph. based on data in a graph

Grade Level	Course Tit	le: Grade 2	Trimester 3	Academic Year: 2017-2018				
Grade Level M In Grade 2, inst subtraction; (3)	3rade Level Mathematics Focus: n Grade 2, instructional time should focus on four critical areas: (1) extending understanding of base-ten notation; (2) building fluency with addition and subtraction; (3) using standard units of measure; and (4) describing and analyzing shapes.							
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Time Frame	Standard	Standard Description	Content	Resources				
(April-May)	2.MD.1	Measure the length of an object by selecting and using appropriate tools such as rulers, yardsticks, meter sticks, and measuring tapes.	 Concept of iteration for measurement 	Chapter 11 – Customary and Metric Lengths (9 Lessons) 11-1: Inches				
Chapter 11:	2.MD.2	Measure the length of an object twice, using length units of different lengths for the two measurements; describe how the two measurements relate to the size of the unit chosen.	 Understanding the need for standard units Length Relate addition 	 11-2: Feet and Yards 11-3: Select and Use Customary Tools 11-4: Compare Customary Lengths 11-5: Relate Inches, Feet, and Yards 11-6: Problem-Solving Strategy: Use Logical Reasoning 11-7: Continuetors and Mature 				
Customary and Metric	2.MD.3	Estimate lengths using units of inches, feet, centimeters, and meters.	and subtraction to	11-7: Centimeters and Meters 11-8: Select and Use Metric Tools 11-9: Compare Metric Lengths				
Lengths	2.MD.4	Measure to determine how much longer one object is than another, expressing the length difference in terms of a standard length unit.	length	11-10 Relate Centimeters and Meters 11-11: Measure on a Number Line 11-12: Measurement Data				
(Approx. 16 days)	2.MD.5	Use addition and subtraction within 100 to solve word problems involving lengths that are given in the same units, e.g., by using drawings (such as drawings of rulers) and equations with a symbol for the unknown number to represent the problem.		Appropriate and Correct Measurement [L] Measurement in the Primary Grades [L] Plotting Numbers on a Number Line [L] Measurement – Introduction to Standard Units[L]				
	2.MD.6	Represent whole numbers as lengths from 0 on a number line diagram with equally spaced points corresponding to the numbers 0, 1, 2,, and represent whole-number sums and differences within 100 on a number line diagram.		Frog and Toad on the number line [IMT] Hand Span Measures [IMT]				

Grade Level Mathematics Focus: In Grade 2, instructional time should focus on four critical areas: (1) extending understanding of base-ten notation; (2) b subtraction; (3) using standard units of measure; and (4) describing and analyzing shapes.	uilding fluency with addition and bes? ion for understanding area, volume,						
	bes? ion for understanding area, volume,						
 Essential Questions: 1. How can students describe and analyze shapes by examining their sides and angles? 2. How can students investigate, describe, and reason about decomposing and combining shapes to make other shapes? 3. How can students, through building, drawing, and analyzing two- and three-dimensional shapes, develop a foundation for understanding area, volume, congruence, similarity, and symmetry in later grades? 							
Time Frame Standard Standard Description Content	Resources						
(May)2.G.1Recognize and draw shapes having specified attributes, such as a given number of angles or a given number of equal faces. Identify triangles, quadrilaterals, pentagons, hexagons, and cubes.• Attributes of geometric shapes • Decomposing and re-composing shapes • Foundations of area, volume, congruence, 	tric Shapes and Equal Shares (8 Lessons)						