2nd Grade Curriculum Guide – 2022-2023

2nd Grade BIG-M Transition Guide

Mathematical Thinking and Reasoning Standards

Key:

*Time frame Includes two days for assessment.

Yellow highlight: New grade level content benchmark

Blue highlight: Materials to be pulled from 4th grade

(FD) Foundational Benchmark Exploration (E), Procedural Reliability (PR), Procedural Fluency (PF), Recall/Automaticity (R)

Benchmark (s)	Learning Targets	NOT Aligned Go Math! Lessons	Suggested Time Frame (Include 2 days of assessments
MA.2.AR.3.1 MA.2.NSO.1.1 MA.2.NSO.1.3 MA.2.NSO.2.3 MA.2.AR.1.1 MA.2.AR.3.2*	 Operations and Algebraic Thinking <u>Addition Concepts</u> – Go Math! Ch.1 Classify numbers to 20 as even or odd and write equations using two equal groups or two equal addends. <u>Write expressions with equal addends to represent even numbers</u>. Write an expression to express an odd number as a sum of two equal addends plus one more Apply a variety of methods application including using the inverse relationship of addition and subtraction to find sums and differences for basic facts focusing on helping students choose a method they can <u>use reliability</u>. Write two-digit numbers in expanded form, standard form, and word form. Apply place value concepts to find equivalent representations of <u>numbers</u>. 		13 days
 Literature Resour Even Stever How Much is 100 Hungry A Place for 2 If You Were One Odd Date My Even Date 	r <u>ces:</u> n/Odd Todd <u>by Kathryn Christaldi</u> s a Million <u>by David M. Schwartz</u> Ants <u>by Elinor J. Pinczes</u> Zero <u>by Angelina Sparagna LoPresti</u> an Even Number <u>by Marci Aboff</u> ay <u>by Doris Fisher</u> by <u>by Doris Fisher</u>	Manipulatives:• Ten-frames• Double ten-frames• Double ten-frames• Hundred chart• Dot cards• Number lines to 20• Connecting cubes• Two-color counters• Place value chart• Base-ten blocks• Objects for counting (e.g., beans, chips, coins)	

Benchmark (s)	Learning Targets	NOT Aligned Go Math! Lessons	Suggested Time Frame (Include 2 days of assessments
MA.2.NSO.1.1 MA.2.NSO.1.2 MA.NSO.1.3 MA.2.NSO.2.2 MA.2.NSO.2.4 MA.2.AR.1.1	 Numbers to 1,000 (Go Math! Ch. 2) Understand that multiples of 100 are multiples of groups of 10 tens. Write three-digit numbers in standard form, expanded form, and word form. Use concrete and pictorial models to represent three-digit numbers. Describe three-digit numbers using place value concepts and find equivalent representations of three-digit numbers. Find 10 more or 10 less than a given 3-digit number; find 100 more or 100 less than a given 3-digit number. Plot, order, and compare two 3-digit numbers using place value and a number line as well as symbols (>, =, <) and the terms (less than, greater than, between, or equal to). 	2.1, 2.2	15 DAYS
 Literature Resour Even Stever How Much is 100 Hungry A Place for 2 If You Were One Odd Date My Even Date 	<u>ces:</u> n/Odd Todd <u>by Kathryn Christaldi</u> s a Million <u>by David M. Schwartz</u> Ants <u>by Elinor J. Pinczes</u> Zero <u>by Angelina Sparagna LoPresti</u> an Even Number <u>by Marci Aboff</u> ay <u>by Doris Fisher</u> y <u>by Doris Fisher</u>	Manipulatives:Ten-framesDouble ten-framesHundred chartDot cardsNumber lines to 20Connecting cubesTwo-color countersPlace value chartBase-ten blocksObjects for counting (e.g., beans, chips, coins)	

Benchmark (s)	Learning Targets	NOT Aligned Go Math! Lessons	Suggested Time Frame (Include 2 days of assessments
MA.2.NSO.2.1 MA.2.NSO.2.4 MA.2.AR.1.1 MA.2.AR.2.2 MA.2.AR.3.1 MA.2.AR.3.2	 Operations and Algebraic Thinking <u>Addition Concepts</u> – (Go Math! Ch. 3) Apply a variety of methods application including using the inverse relationship of addition and subtraction to find sums and <u>differences for basic facts</u> focusing on helping students choose a method they can use reliability. Recall sums and related subtraction facts using properties and methods including make a ten. Determine the unknown whole number in an equation relating to three or four whole numbers focusing on the understanding of the equal sign. Determine if the equation is true or false by using comparative relationship thinking. Use various representations of addition and subtraction situations, including equations with a symbol for the unknown <u>number</u> Solve problems involving <u>equal groups</u> and write equations using <u>repeated addition</u> to find the total number of objects in arrays. 		15 Days
 Literature Resources: Even Steven/Odd Todd by Kathryn Christaldi How Much is a Million by David M. Schwartz 100 Hungry Ants by Elinor J. Pinczes A Place for Zero by Angelina Sparagna LoPresti If You Were an Even Number by Marci Aboff One Odd Day by Doris Fisher My Even Day by Doris Fisher 		Manipulatives: Ten-frame Double ter Hundred c Dot cards Number lir Connecting Two-color Place valu Base-ten b Objects for beans, chi	s h-frames hart nes to 20 g cubes counters e chart blocks r counting (e.g., ps, coins

Note:

- The following lessons are addressed in previous chapters, and can be used as extra practice or for brain check: 3.1, 3.2
- It is best to progress into multiplication after this section, because students have solved problems involving equal groups, repeated addition, and arrays.

Benchmark (s)	Learning Targets	NOT Aligned Go Math! Lessons	Suggested Time Frame (Include 2 days of assessments
<u>MA.2.AR.3.1</u> MA.2.AR.3.2	 NEW TO 2ND GRADE: Multiplication: Grade 3 (Go Math! Ch.3-4) Please provide these lessons as a part of your instruction Model and skip count objects in equal groups to find how many there are. Making the connection of recognizing even and odd numbers using skip counting, arrays, and pattern in the ones place. Making connection between arrays and repeated addition, which builds foundation for multiplication. Write an addition sentence and a multiplication sentence for a model. 		20 days

Benchmark (s)	Learning Targets	NOT Aligned Go Math! Lessons	Suggested Time Frame (Include 2 days of assessments
MA.2.NSO.2.3 MA.2.NSO.1.2 MA.2.NSO.1.4 MA.2.NSO.2.4 MA.2.AR.1.1 MA.2.AR.2.1 MA.2.AR.2.1 MA.2.AR.2.2	 Addition and Subtraction Two-Digit Addition (Go Math! Ch. 4) Apply methods including break apart to find sums of two 2-digit numbers. Compose and decompose 2-digit numbers in multiple ways using hundreds, tens, and ones. Find sums of two 2-digit numbers, with and without regrouping using methods based on place value and properties of operations including using a number line. Use the strategy draw a diagram to solve multistep problems. Use various representations of 2-digit addition situations, including equations with a symbol for the unknown number. 	4.8	13 Days
Literature Resour	<u>ces</u>	<u>Manipulatives:</u>	
Cam Janser	: The Mystery of the Carnival Prize <i>by David A. Adler</i>	Base-ten k	blocks
Divide of R *Domino Ad	de <u>by Stuart J. Murphy</u>	I en-trame Double tor	S framos
 *Chrysanthe 	mum <i>by Kevin Henkes</i>	Hundred c	hart
 If You Were 	a Plus Sign <u>by Trisha Speed Sha</u> skan	 Dot cards 	
 Animals on I 	Board <u>by Stuart J. Murphy</u>	Number lir	nes to 20
 Sea Sums <u>b</u> 	y Joy N. Hulme	Open num	ber line
 Dealing with 	Addition by Lynette Long	Two-color	counters
 Elevator Ma 	gic, Level <u>by Stuart</u>	Part-Part v	vhole chart
		Place Valu	le Chart
		 Number cu 	ubes

Benchmark (s)	Learning Targets	NOT Aligned Go Math! Lessons	Suggested Time Frame (Include 2 days of assessments
MA.2.AR.1.1 MA.2.NSO.2.3 MA.2.AR.2.1 MA.2.AR.2.2 MA.2.NSO.2.4	Two-Digit Subtraction (Go Math! Ch. 5) Use various representations of 2-digit subtraction situations, cluding equations with a symbol for the unknown number. Break apart a 1 or 2–digit subtrahend to subtract it from a 2-git number. Analyze word problems to determine what operation to use to plve multistep problems. Determine and explain whether equations involving subtraction re true or false.	5.7	13 days
Literature Resour	ces:	Manipulatives:	
Cam Janser	n: The Mystery of the Carnival Prize <u>by David A. Adler</u>	 Base-ten b 	olocks
*Divide or R	ide <u>by Stuart J. Murphy</u>	Ten-frame	S
 Domino Ad *Obmino ad 	dition <u>by Lynette Long</u>	Double ten-frames	
Chrysantne If You Wore	emum <u>by Kevin Henkes</u> a <u>Blue Sign by Triske Speed Skeeken</u>	Hundred chart	
 Animals on I 	a Flus Sigil <u>by Thisha Speeu Shaskan</u> Board by Stuart I Murphy	Dot cards Number lines to 20	
 Sea Sums b 	v Joy N. Hulme		her line
 Dealing with 	Addition by Lynette Long	Two-color	counters
 Elevator Magic, Level by Stuart 		Part-Part v	vhole chart
		Place Valu	le Chart
		Number cu	ubes
		Spinners	
Notes:			

 The following lessons are taught in previous chapters (chapter 2 focuses on composition numbers, and chapter 3 focuses on number bond and decomposing numbers), and can be used as extra practice or for brain check: 5.1, and 5.2

• Students are not limited to using the strategy presented in lesson 5.3

Benchmark (s)	Learning Targets	NOT Aligned Go Math! Lessons	Suggested Time Frame (Include 2 days of assessments
MA.2.NSO.2.4 MA.2.NSO.1.2 MA.2.NSO.1.4	 Three-Digit Addition and Subtraction (Go Math! Ch. 6) Use concrete and pictorial representations to add and subtract 3-digit numbers. Apply place value methods including <i>break apart</i> for three-digit addition. Understand that rounding is a process that produces a number with a similar value that is less precise but easier to use. Use a variety of methods including a <u>number line</u> to find sums and differences of 3-digit numbers, with and without regrouping. 		10 days
Literature Resour Cam Jansen *Divide or Ri *Domino Add *Chrysanthe If You Were Animals on B Sea Sums <u>b</u> Dealing with Elevator Mag	<u>ces:</u> a: The Mystery of the Carnival Prize <u>by David A. Adler</u> ide <u>by Stuart J. Murphy</u> dition <u>by Lynette Long</u> mum <u>by Kevin Henkes</u> a Plus Sign <u>by Trisha Speed Shaskan</u> Board <u>by Stuart J. Murphy</u> <u>y Joy N. Hulme</u> Addition <u>by Lynette Long</u> gic, Level <u>by Stuart</u>	Manipulatives: Base-ten b Ten-frame Double ter Hundred c Dot cards Number lin Open num Two-color Part-Part v Place Valu Number cu Spinners	olocks s h-frames hart nes to 20 ber line counters vhole chart le Chart lbes
• The followin check: 6.1,	ng lessons are addressed in previous chapters, and can be us 6.2, 6.3, 6.4, and 6.5	sed as extra pract	ice or for brain

	Lessons	(Include 2 days of assessments
 MA.2.M.2.1 MA.2.M.2.2 Read and write times to the nearest five minutes shown on analog and digital clocks, Including labeling times as <u>a.m and p.m</u>. Express portions of an hour using the fractional terms half an hour, half past, quarter of an hour, quarter after and quarter till. Connect telling time to the partitioning of circles and to a number line. Find the total values of collections of dimes, nickels, and pennies. Show one dollar in a variety of ways, and represent money amount less than and greater than a dollar using 2 different combinations of coins. Order coins in a collection by value and then find the total value. Solve word problems involving dollar bills with \$100 or coins within 100 cents. 		16 day
 Literature Resources Alexander Who Used to Be Rich Last Sunday by Judith Viorst Pigs Will Be Pigs by Amy Axel Rol *The Grouchy Ladybug by Eric Carle Telling Time with Big Mama Cat by Dan Harper A Quarter from the Tooth Fairy by Caren Holtman A Chair for My Mother by Vera Williams One cent, Two cents, Old cent, New cents by Bonnie Worth A Dollar for Penny by Julie Glass The Penny Pot by Lynne Avril 	Manipulatives Analog clo Open num Dollar bills nickel, dime, quat Connectin 	ocks aber lines , coins (penny, rter) g cubes

• Review unit vocabulary, and the value of each coin prior to teaching your daily math lesson.

Benchmark (s)	Learning Targets	NOT Aligned Go Math! Lessons	Suggested Time Frame (Include 2 days of assessments
MA.2.AR.1.1 MA.2.M.1.1 MA.2.M.1.2 MA.2.M.1.3 MA.2.DP.1.1	 Length in Customary Units (Go Math! Ch. 8) Estimate and measure in inches, feet, and yards. Solve one addition and subtraction problems involving lengths, using diagrams and equations with a symbol for the unknown number. Solving problems that may include creating real-world situations based on equations. Recognize the inverse relationship between the size and the number of units needed to measure a given length. See rulers and tape measures as number lines. Measure the lengths of objects and make a line plot to display the data. Measure the lengths of two objects using the same unit (inches, feet, or yards) and determine the difference between their measurements. 		13 days
 Literature Resources: *How Long or How Wide by Brian P. Cleary *Me and the Measure of Things by Joan Sweeney *How Big is a Foot? by Rolf Myller Inch by Inch by Leo Lionni Measuring Penny by Loreen Leedy 		 Manipulatives Measurem rulers, yard sticks, mea Number lin 	<u>:</u> ent tools (e.g., d sticks, meter asuring tapes) les

Benchmark (s)	Learning Targets	NOT Aligned Go Math! Lessons	Suggested Time Frame (Include 2 days of assessments
MA.2.M.1.1 MA.2.M.1.3 MA.2.M.1.2 MA.2.AR.1.1	 Length in Metric Units (Go Math! Ch. 9) Use concrete models and the appropriate tools to measure lengths in centimeters and meters. See rulers and tape measures as number lines. Estimate lengths in centimeters and in meters. Use the strategy draw a diagram to solve problems involving adding and subtracting lengths. Solve addition and subtraction problems involving lengths, using number line diagrams and equations with a symbol for the unknown number. Recognize the inverse relationship between the size and the number of units needed to measure a given length. Measure and then find the difference in the lengths of two objects. 		13 days
 Literature Resources: *How Long or How Wide by Brian P. Cleary *Me and the Measure of Things by Joan Sweeney *How Big is a Foot? by Rolf Myller Inch by Inch by Leo Lionni Measuring Penny by Loreen Leedy 		 Manipulatives Measurem rulers, yard sticks, mea Number lin 	<u>5:</u> ent tools (e.g., d sticks, meter asuring tapes) nes
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It is important for your students to know that Meter is a greater unit than Centimeter ٠ •

It is important for your students to understand that **1 meter = 100 centimeters**. Provide simple practice problems to convert from meter to centimeter as a part of your daily number talk.

Benchmark (s)	Learning Targets	NOT Aligned Go Math! Lessons	Suggested Time Frame (Include 2 days of assessments
MA.1.NSO.1.1 MA.2.DP .1.1 MA.2.DP .1.2	 Data (Go Math! Ch.10) Collect and record data in tally charts. Interpret data in picture graphs and bar graphs to solve problems. Display data in picture graphs and in bar graphs using scales of ones, fives or tens. Recognize the inverse relationship between the size and the number of units needed to measure a given length. 		11 days
Literature Resour Tally O'Mallo Lemonade f * Six-Dinner Great Graph Tally Cat Ke The Best Va	<u>ces:</u> ey <u>by Stuart J. Murphy</u> or Sale <u>by Tricia Tusa</u> Sid <u>by Inga Moore</u> o Contest <u>by Loreen Leedy</u> eps Track <u>by Trudy Harris</u> ocation Ever <u>by Stuart J. </u> Murphy	 Manipulatives: Connecting cubes and square color tiles to create graphs Number lines Graph paper 	

Benchmark (s)	Learning Targets	NOT Aligned Go Math! Lessons	Suggested Time Frame (Include 2 days of assessments
MA.2.GR.1.1 MA.2.GR.1.2 MA.2.FR.1.1 MA.2.FR.1.2* MA.2.GR.2.1 MA.2.GR.2.2 MA.2.GR.1.3	 Geometry and Fractions Concepts (2nd grade Go Math! Ch. 11) NEW TO THE GRADE LEVEL: (3rd grade Go Math! Ch.11, & 12.3 - 12.6) Please provide these lessons as a part of your instruction. Identify, describe, and draw two-dimensional shapes including octagons, based on the defining attributes of the shapes. Identify, describe, and partition circles and rectangles with equal parts that show halves, thirds, or fourths. Explore perimeter and find the perimeter of a polygon with whole number side lengths. Identify line(s) of symmetry for a two-dimensional figure. 		13 days
 Literature Resources: *The Greedy Triangle by Marilyn Burns Give Me Half by Stuart J. Murphy *Fraction Action by Loreen Leedy If You Were a Polygon by Marcie Aboff Icky Bug Shapes by Jerry Pallotta 		 Manipulatives: Three-dim Attribute b Pattern blo Tangrams Geoboards (rubber ba Variety of b 	ensional objects locks ocks s and Geobands nds) cut-out shapes