

2nd Grade Math
Pacing Guide First Semester

1st Quarter

Unit Title:

Basic Facts/Number and Operations in Base Ten

Operations and Algebraic Thinking (addition to 20; subtraction from 10 or less)

Essential Questions:

How do you use place value to find the value of numbers?

How do you describe numbers in different ways?

How can you use patterns and strategies to find sums and differences for basic facts?

How can you use place value to model, write, and compare three-digit numbers?

Quarter 1 Readiness Review Standards

Time: Review clock, practice telling & writing time to the hour.

1.MD.B.3: Tell and write time in hours and half-hours using analog and digital clocks.

Money: Review penny & nickel; count sets of coins (penny & nickel only)

1.MD.B.4: Count the value of a set of like coins less than one dollar using the cent symbol only.

Grade Readiness

Readiness skills (behaviors): Students can:

- fluently add and subtract within 20.
- know from memory all sums up to 10.
- add and subtract within 20 to solve contextual problems, with unknowns in all positions.
- count to 120 starting at any number.
- represent two-digit numbers using tens and ones.
- compare two two-digit numbers using $<$, $>$, and $=$.
- mentally find 10 more and 10 less.

Knowledge (Standards): Students who demonstrate understanding can:

- fluently add and subtract within 30.
- know from memory all sums of two one-digit numbers and related subtraction facts.
- decide if a group of objects is even or odd by pairing them or counting by 2s.
- break down a three-digit number into hundreds, tens, and ones.
- skip count by 5s, 10s, and 100s when I count.
- read and write numbers to 1,000 using standard form, word form, and expanded form.
- compare two three-digit number using $<$, $>$, and $=$.
- mentally add or subtract 10 or 100 to a number.

Pacing	Instruct. Days	TN Standards	Differentiation (ELL, SPED, Intervention, Enrichment)	Mathematical Processes	Resources	Assessments/ District Benchmarks/ State Exams
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Quarter 1 Week 1	5	Review procedures and establish routines 1.OA.C.5	Support: GoMath: Personal Math Trainer, Math on the Spot Video, Reteach Lessons. Continue using Manipulatives. Enrichment: GoMath: Enrich Lessons, Advanced Learners Activities, Grab & Go Kit, and High-Stakes Assessment Booklet.	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8	Math Facts Flash Cards Manipulatives: Connecting cubes District-approved Websites	Daily formative assessments Teacher observation Exit Tickets
Quarter 1 Week 2	5	2.OA.B.2 (Major Work of the Grade) 2.OA.C.3 (Supporting Work)	Support: GoMath: Personal Math Trainer, Math on the Spot Video, Reteach Lessons. Continue using Manipulatives. Add and subtract within 10 using concrete objects. A context is not provided. Enrichment: GoMath: Enrich Lessons, Advanced Learners Activities, Grab & Go Kit, and High-Stakes Assessment Booklet. Analyze a given addition problem and its accompanying solution and determine if the solution is correct or incorrect.	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8	Go Math Text and Grab & Go Kit Manipulatives: Math Facts Flash Cards Ten frames Two Color Counters District-approved Websites	Daily formative assessments Teacher observation Exit Tickets
Quarter 1 Week 3	5	2.OA.B.2 (Major Work of the Grade) 2.OA.C.3 (Supporting Work)	Support: GoMath: Personal Math Trainer, Math on the Spot Video, Reteach Lessons. Continue using Manipulatives. Enrichment: GoMath: Enrich Lessons, Advanced Learners Activities, Grab & Go Kit, and High-Stakes Assessment Booklet.	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8	Go Math Text and Grab & Go Kit Manipulatives: Math Facts Flash Cards Ten frames Two Color Counters District-approved Websites	Daily formative assessments Teacher observation Exit Tickets
Quarter 1 Week 4	5	2.OA.B.2 (Major Work of the Grade) 2.OA.C.3 (Supporting Work)	Support: GoMath: Personal Math Trainer, Math on the Spot Video, Reteach Lessons. Continue using Manipulatives. Add and subtract within 30 using concrete objects. A context is not provided. Enrichment: GoMath: Enrich Lessons, Advanced Learners Activities, Grab & Go Kit, and High-Stakes Assessment Booklet.	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8	Go Math Text and Grab & Go Kit Manipulatives: Math Facts Flash Cards Ten frames Two Color Counters District-approved Websites	Daily formative assessments Teacher observation Exit Tickets Unit test GoMath Mastery Connect

Quarter 1 Week 5	4	2.NBT.A.1 2.NBT.A.2 2.NBT.A.3 2.NBT.A.4 2.NBT.B.8	Support: GoMath: Personal Math Trainer, Math on the Spot Video, Reteach Lessons. Continue using Manipulatives. Represent a number less than 20 as a ten and some ones. Represent a two-digit number as groups of tens and ones in one way. Enrichment: GoMath: Enrich Lessons, Advanced Learners Activities, Grab & Go Kit, and High-Stakes Assessment Booklet. Represent a three-digit number as groups of hundreds, tens, & ones in more than one way. Explain why these multiple representations can represent the same number.	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8	Go Math Text and Grab & Go Kit Manipulatives: Math Facts Flash Cards Base-ten blocks Tens/Ones mat District-approved Websites	Daily formative assessments Teacher observation Exit Tickets
Quarter 1 Week 6	5	2.NBT.A.1 2.NBT.A.2 2.NBT.A.3 2.NBT.A.4 2.NBT.B.8	Support: GoMath: Personal Math Trainer, Math on the Spot Video, Reteach Lessons. Continue using Manipulatives. Count up to 100 by ones, fives, and tens starting at any number in its skip counting sequence. Enrichment: GoMath: Enrich Lessons, Advanced Learners Activities, Grab & Go Kit, and High-Stakes Assessment Booklet. Skip count within 1000 by other numeric patterns (e.g., twos, fours, sixes, etc.) starting from any number in its skip counting sequence	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8	Go Math Text and Grab & Go Kit Manipulatives: Base-ten blocks Hundreds/tens/ones mat 100s chart District-approved Websites	Daily formative assessments Teacher observation Exit Tickets
Quarter 1 Week 7	5	2.NBT.A.1 2.NBT.A.2 2.NBT.A.3 2.NBT.A.4 2.NBT.B.8	Support: GoMath: Personal Math Trainer, Math on the Spot Video, Reteach Lessons. Continue using Manipulatives. Reads and writes numbers from 0- 20. Writes numerals from 0-9 in word form. Enrichment: GoMath: Enrich Lessons, Advanced Learners Activities, Grab & Go Kit, and High-Stakes Assessment Booklet.	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8	<u>Illustrative Mathematics, Looking at Numbers Every Which Way</u> Go Math Text and Grab & Go Kit Manipulatives: Base-ten blocks Hundreds/tens/ones mat 100s chart	Daily formative assessments Teacher observation Exit Tickets

			Explain why standard form and expanded form of a number are equivalent.		District-approved Websites	
Quarter 1 Week 8	5	2.NBT.A.1 2.NBT.A.2 2.NBT.A.3 2.NBT.A.4 2.NBT.B.8	<p>Support: GoMath: Personal Math Trainer, Math on the Spot Video, Reteach Lessons. Continue using Manipulatives. Reads and writes numbers to 100 using standard form, word form, & expanded form. Given a number written in either standard form, expanded form, or word form, choose the other representations.</p> <p>Enrichment: GoMath: Enrich Lessons, Advanced Learners Activities, Grab & Go Kit, and High-Stakes Assessment Booklet. Explain how the digit zero in a number affects standard form, word form, & expanded form of a number.</p>	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8	Go Math Text and Grab & Go Kit Manipulatives: Base-ten blocks Hundreds/tens/ones mat 100s chart District-approved Websites	Daily formative assessments Teacher observation Exit Tickets
Quarter 1 Week 9	5	2.NBT.A.1 2.NBT.A.2 2.NBT.A.3 2.NBT.A.4 2.NBT.B.8	<p>Support: GoMath: Personal Math Trainer, Math on the Spot Video, Reteach Lessons. Continue using Manipulatives. Compare two numbers up to 10 and use the symbols $>$, $=$, and $<$ to show the relationship. Compare a one-digit number to a two-digit number and use the symbols $>$, $=$, and $<$ to show the relationship.</p> <p>Enrichment: GoMath: Enrich Lessons, Advanced Learners Activities, Grab & Go Kit, and High-Stakes Assessment Booklet. Accurately order a set of three or more three-digit numbers from least to greatest or greatest to least based on the meanings of the digits in each place and uses the symbols $>$ or $<$ to show the relationships and provide justification for the comparison.</p>	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8	Go Math Text and Grab & Go Kit Manipulatives: Base-ten blocks Hundreds/tens/ones mat 100s chart District-approved Websites	Daily formative assessments Teacher observation Exit Tickets Unit test GoMath Ch 2 Mastery Connect

2nd Grade Math
Pacing Guide First Semester

2nd Quarter

Unit Title:

Computation with Whole Numbers: 2-Digit Addition and Subtraction

Essential Questions:

How do you use place value to add two-digit numbers?

What are some different ways to add two-digit numbers?

How do you use place value to subtract two-digit numbers with and without regrouping?

Quarter 2 Readiness Review Standards

Time: Review clock, practice telling & writing time to the half hour.

1.MD.B.3: Tell and write time in hours and half-hours using analog and digital clocks.

Money: Review penny, nickel, & dime; count sets of coins(penny, nickel, & dimes only). Resource: GoMath Lesson 7.1

1.MD.B.4: Count the value of a set of like coins less than one dollar using the cent symbol only.

Grade Readiness

Readiness skills (behaviors): Students can:

- use various strategies to add and subtract within 20.
- apply properties of operation as strategies to add and subtract
- use tens and ones to add and subtract.
- explain the meaning of the equal sign.
- add three whole numbers whose sum is within 20.

Knowledge (Standards): Students who demonstrate understanding can:

- fluently add and subtract within 100.
- add and subtract within 100 to solve one and two-step word problems.
- explain why addition and subtraction strategies work.
- add up to four two-digit numbers using properties of operations and place value.

Pacing	Instruct. Days	TN Standards	Differentiation (ELL, SPED, Intervention, Enrichment)	Mathematical Processes	Resources	Assessments/ District Benchmarks/ State Exams
Quarter 2 Week 1	5	2.NBT.B.5 2.OA.A.1 2.NBT.B.9	Support: GoMath: Personal Math Trainer, Math on the Spot Video, Reteach Lessons. Continue using Manipulatives. Accurately add or subtract two numbers within 10 using mental strategies. No context is provided. Enrichment:	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8	Go Math Text and Grab & Go Kit Manipulatives: Base-ten blocks Hundreds/tens/ones mat District-approved Websites	Daily formative assessments Teacher observation Exit Tickets

			<p>GoMath: Enrich Lessons, Advanced Learners Activities, Grab & Go Kit, and High-Stakes Assessment Booklet.</p> <p>Students can explain or defend the accuracy of their answer and the strategy used.</p> <p>Students can also be challenged to consider multiple strategies and provide justification for why one strategy is more efficient than another strategy.</p>			
Quarter 2 Week 2	5	2.NBT.B.5 2.OA.A.1 2.NBT.B.9	<p>Support:</p> <p>GoMath: Personal Math Trainer, Math on the Spot Video, Reteach Lessons.</p> <p>Continue using Manipulatives.</p> <p>Add and subtract within 20 to solve contextual problems, involving any of the problem types.</p> <p>Enrichment:</p> <p>GoMath: Enrich Lessons, Advanced Learners Activities, Grab & Go Kit, and High-Stakes Assessment Booklet.</p> <p>Add and subtract within 100 to solve two-step contextual problems.</p> <p>Represent problems with a number line model and equation(s) with a symbol for the unknown number(s).</p>	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8	<p>Go Math Text and Grab & Go Kit</p> <p>Manipulatives: Base-ten blocks Hundreds/tens/ones mat</p> <p>District-approved Websites</p>	<p>Daily formative assessments</p> <p>Teacher observation</p> <p>Exit Tickets</p>
Quarter 2 Week 3	5	2.NBT.B.5 2.OA.A.1 2.NBT.B.9	<p>Support:</p> <p>GoMath: Personal Math Trainer, Math on the Spot Video, Reteach Lessons.</p> <p>Continue using Manipulatives.</p> <p>Add and subtract within 100 to solve one-step contextual problems which do not require composing or decomposing tens, using two different situations of add to-start unknown, take from-start unknown, compare-smaller unknown (version with more), compare-bigger unknown (version with fewer).</p> <p>Represent problems with a mathematical drawing or concrete model</p> <p>Enrichment:</p>	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8	<p>Go Math Text and Grab & Go Kit</p> <p>Manipulatives: Base-ten blocks Hundreds/tens/ones mat</p> <p>District-approved Websites</p>	<p>Daily formative assessments</p> <p>Teacher observation</p> <p>Exit Tickets</p>

			GoMath: Enrich Lessons, Advanced Learners Activities, Grab & Go Kit, and High-Stakes Assessment Booklet. Add and subtract within 100 to solve a wide variety of two-step contextual problems. Represent problems with a single equation that encompasses both steps needed to solve the problem.			
Quarter 2 Week 4	4	2.NBT.B.6	Support: GoMath: Personal Math Trainer, Math on the Spot Video, Reteach Lessons. Continue using Manipulatives. Add and subtract within 100 to solve two-step contextual problems. Represent problems with a mathematical drawing, diagram, or equation(s). Enrichment: GoMath: Enrich Lessons, Advanced Learners Activities, Grab & Go Kit, and High-Stakes Assessment Booklet.	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8	Go Math Text and Grab & Go Kit Manipulatives: Base-ten blocks Hundreds/tens/ones mat District-approved Websites	Daily formative assessments Teacher observation Exit Tickets Unit test GoMath Ch 4 Mastery Connect
Quarter 2 Week 5	5	2.NBT.B.5 2.OA.A.1 2.NBT.B.9	Support: GoMath: Personal Math Trainer, Math on the Spot Video, Reteach Lessons. Continue using Manipulatives. Enrichment: GoMath: Enrich Lessons, Advanced Learners Activities, Grab & Go Kit, and High-Stakes Assessment Booklet.	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8	Go Math Text and Grab & Go Kit Manipulatives: Base-ten blocks Hundreds/tens/ones mat District-approved Websites	Daily formative assessments Teacher observation Exit Tickets
Quarter 2 Week 6	5	2.NBT.B.5 2.OA.A.1 2.NBT.B.9	Support: GoMath: Personal Math Trainer, Math on the Spot Video, Reteach Lessons. Continue using Manipulatives. Accurately add or subtract two numbers within 20 using mental strategies. No context is provided. Enrichment: GoMath: Enrich Lessons, Advanced Learners Activities, Grab & Go Kit, and High-Stakes Assessment Booklet. Explain or defend the accuracy and strategy.	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8	Go Math Text and Grab & Go Kit Manipulatives: Base-ten blocks Hundreds/tens/ones mat District-approved Websites	Daily formative assessments Teacher observation Exit Tickets

Quarter 2 Week 7	5	2.NBT.B.5 2.OA.A.1 2.NBT.B.9	<p>Support: GoMath: Personal Math Trainer, Math on the Spot Video, Reteach Lessons. Continue using Manipulatives. Add and subtract within 100 to solve two-step contextual problems. Represent problems with mathematical drawing, diagram, or equation(s).</p> <p>Enrichment: GoMath: Enrich Lessons, Advanced Learners Activities, Grab & Go Kit, and High-Stakes Assessment Booklet. Choose two different strategies that can be used to accurately subtract the same two numbers within 100. Using appropriate mathematical vocabulary, explain how the two strategies are related, the strengths and weaknesses of each strategy, and why one strategy is more efficient than another.</p>	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8	Go Math Text and Grab & Go Kit Manipulatives: Base-ten blocks Hundreds/tens/ones mat District-approved Websites	Daily formative assessments Teacher observation Exit Tickets
Quarter 2 Week 8	5	2.NBT.B.5 2.OA.A.1 2.NBT.B.9	<p>Support: GoMath: Personal Math Trainer, Math on the Spot Video, Reteach Lessons. Continue using Manipulatives. Identify 1-2 strategies that can be used to accurately subtract two numbers within 100. Explain why each strategy works using properties of operations and place value.</p> <p>Enrichment: GoMath: Enrich Lessons, Advanced Learners Activities, Grab & Go Kit, and High-Stakes Assessment Booklet. Create two unique contextual problems that could be solved using the provided equations, given two, two-step equations (one of which incorporates both addition and subtraction) arising from the different situations of add to-start unknown, take from-start unknown, compare-smaller unknown (version with more), compare-bigger unknown (version with fewer).</p>	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8	Go Math Text and Grab & Go Kit Manipulatives: Base-ten blocks Hundreds/tens/ones mat District-approved Websites	Daily formative assessments Teacher observation Exit Tickets Unit test GoMath Ch 5 Mastery Connect

2nd Grade Math
Pacing Guide Second Semester

3rd Quarter

Unit Title:

Computation with Whole Numbers: 3-Digit Addition and Subtraction

Measurement Concepts: Measuring Length Data

Essential Questions:

What are some strategies for adding and subtracting three-digit numbers?

What are some of the methods and tools that can be used to estimate and measure length in standard units?

What are some of the methods and tools that can be used to estimate and measure length in metric units?

How do tally charts, picture graphs, and bar graphs help you solve problems?

Quarter 3 Readiness Review Standards

Time: Tell time to the nearest five minutes.

2.MD.C.7 (Supporting Content): Tell and write time in quarter hours and to the nearest five minutes (a.m. and p.m.) using analog and digital clocks.

Money: Introduce quarters and dollar bills & count sets of coins (penny, nickel, dime, quarter) and dollars. Resource: GoMath Lesson 7.2, 7.3

2.MD.C.8 (Supporting Content): Solve contextual problems involving dollar bills, quarters, dimes, nickels, and pennies using ¢ and \$ symbols appropriately.

Grade Readiness

Readiness skills (behaviors): Students can:

- fluently add and subtract within 100.
- add and subtract within 100 to solve one and two-step word problems.
- explain why addition and subtraction strategies work.
- add up to four two-digit numbers using properties of operations and place value.
- order three objects by length.
- measure the length of an object using non-standard units.
- organize, represent, and interpret data with up to three categories.

Knowledge (Standards): Students who demonstrate understanding can:

- use concrete models and drawings to add and subtract within 1,000.
- measure the length of an object by selecting and using the correct tool.
- measure the length of an object using different units of measurement.
- compare the two measurements.
- estimate lengths using inches, feet, yards, centimeter, and meters.
- measure to determine how much longer one object is to another.
- add and subtract within 100 to solve problems involving length.
- use a number line to show addition and subtraction of lengths.
- use data generated by length and create a line plot.
- draw a pictograph and bar graph with four categories
- solve problems related to the graph.

Pacing	Instruct. Days	TN Standards	Differentiation (ELL, SPED, Intervention, Enrichment)	Mathematical Processes	Resources	Assessments/ District Benchmarks/ State Exams
Quarter 3 Week 1	4	2.NBT.B.7 2.OA.A.1 2.NBT.B.9	Support: GoMath: Personal Math Trainer, Math on the Spot Video, Reteach Lessons. Continue using Manipulatives. Use a concrete model to add or subtract two whole numbers with sums/ differences within 100 which do not require composing or decomposing tens. Enrichment: GoMath: Enrich Lessons, Advanced Learners Activities, Grab & Go Kit, and High-Stakes Assessment Booklet. Add more than three whole numbers with a sum within 1000, where composing both tens and hundreds is required using two different strategies. Students should explain each using concrete models, drawings, strategies based on place value, properties of operations, and/or the relationship between addition and subtraction.	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8	EngageNY, Module 5, Lesson 9 LearnZillion, Unit 11, Lesson 4 LearnZillion, Unit 11, Lesson 5 Go Math Text and Grab & Go Kit Manipulatives: Base-ten blocks Hundreds/tens/ones mat District-approved Websites	Daily formative assessments Teacher observation Exit Tickets
Quarter 3 Week 2	5	2.NBT.B.7 2.OA.A.1 2.NBT.B.9	Support: GoMath: Personal Math Trainer, Math on the Spot Video, Reteach Lessons. Continue using Manipulatives. Add and subtract two whole numbers with sums/differences within 1000 which do not require composing or decomposing tens or hundreds. Students should explain their answer using concrete models, drawings, strategies based on place value, properties of operations, and/or the relationship between addition and subtraction. Enrichment:	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8	EngageNY, Module 5, Lesson 10 EngageNY, Module 5, Lesson 12 LearnZillion, Unit 11, Lesson 6 Go Math Text and Grab & Go Kit Manipulatives: Base-ten blocks Hundreds/tens/ones mat District-approved Websites	Daily formative assessments Teacher observation Exit Tickets

			GoMath: Enrich Lessons, Advanced Learners Activities, Grab & Go Kit, and High-Stakes Assessment Booklet.			
Quarter 3 Week 3	4	2.NBT.B.7 2.OA.A.1 2.NBT.B.9	<p>Support: GoMath: Personal Math Trainer, Math on the Spot Video, Reteach Lessons. Continue using Manipulatives. Identify one strategy that can be used to accurately subtract two numbers within 100. Explain the strategy using drawings or objects.</p> <p>Enrichment: GoMath: Enrich Lessons, Advanced Learners Activities, Grab & Go Kit, and High-Stakes Assessment Booklet. Choose two different strategies that can be used to accurately subtract the same two numbers within 100. Using appropriate mathematical vocabulary, explain how the two strategies are related, the strengths and weaknesses of each strategy, and why one strategy is more efficient than another.</p>	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8	EngageNY, Module 5, Lesson 13 EngageNY, Module 5, Lesson 14 LearnZillion, Unit 11, Lesson 7 LearnZillion, Unit 11, Lesson 9 LearnZillion, Unit 11, Lesson 10 Go Math Text and Grab & Go Kit Manipulatives: Base-ten blocks Hundreds/tens/ones mat District-approved Websites	Daily formative assessments Teacher observation Exit Tickets
Quarter 3 Week 4	5	2.NBT.B.7 2.OA.A.1 2.NBT.B.9	<p>Support: GoMath: Personal Math Trainer, Math on the Spot Video, Reteach Lessons. Continue using Manipulatives. Identify one to two strategies that can be used to accurately subtract two numbers within 100. Explain why each strategy works using properties of operations and place value.</p> <p>Enrichment: GoMath: Enrich Lessons, Advanced Learners Activities, Grab & Go Kit, and High-Stakes Assessment Booklet. Explain why one strategy is more efficient in some cases than other cases and</p>	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8	EngageNY, Module 5, Lesson 15 EngageNY, Module 5, Lesson 16 EngageNY, Module 5, Lesson 18 Go Math Text and Grab & Go Kit Manipulatives: Base-ten blocks Hundreds/tens/ones mat District-approved Websites	Daily formative assessments Teacher observation Exit Tickets Unit test GoMath Ch 6 Mastery Connect

			defend the reasoning using precise mathematical vocabulary.			
Quarter 3 Week 5	5	2.MD.A.1 2.MD.A.2 2.MD.A.3	Support: GoMath: Personal Math Trainer, Math on the Spot Video, Reteach Lessons. Continue using Manipulatives. Measure the length of an object using non-standard units Enrichment: GoMath: Enrich Lessons, Advanced Learners Activities, Grab & Go Kit, and High-Stakes Assessment Booklet. Measure the length of an object by selecting and using appropriate tools such as rulers, yardsticks, meter sticks, and measuring tapes and provide an explanation as to why the measuring device chosen is the best for a given situation.	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8	Lesson that makes an explicit connection between the number line & measurement: LearnZillion, Unit 3, Lesson 1 Go Math Text and Grab & Go Kit Manipulatives: Color tiles Inch rulers District-approved Websites	Daily formative assessments Teacher observation Exit Tickets
Quarter 3 Week 6	5	2.MD.A.1 2.MD.A.2 2.MD.A.3 2.MD.A.4 2.MD.A.5 2.MD.A.6 (Supporting work of the grade)	Support: GoMath: Personal Math Trainer, Math on the Spot Video, Reteach Lessons. Continue using Manipulatives. Measure the length of an object when given an appropriate tool such as rulers, yardsticks, and measuring tapes. Enrichment: GoMath: Enrich Lessons, Advanced Learners Activities, Grab & Go Kit, and High-Stakes Assessment Booklet. Given an incorrect measure for an object, correct the error and explain why the error may have occurred.	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8	Go Math Text and Grab & Go Kit Manipulatives: Inch rulers Yardsticks Measuring tapes District-approved Websites	Daily formative assessments Teacher observation Exit Tickets Unit test GoMath Ch 8 Mastery Connect
Quarter 3 Week 7	5	2.MD.A.1 2.MD.A.2 2.MD.A.3	Support: GoMath: Personal Math Trainer, Math on the Spot Video, Reteach Lessons. Continue using Manipulatives. Measure the length of an object using two different units of measure. Enrichment:	MP1 MP2 MP3 MP4 MP5 MP6 MP7	EngageNY, Module 2, Lesson 8 Go Math Text and Grab & Go Kit Manipulatives: Base ten-unit cubes	Daily formative assessments Teacher observation Exit Tickets

			GoMath: Enrich Lessons, Advanced Learners Activities, Grab & Go Kit, and High-Stakes Assessment Booklet. Match the correct unit of measure to objects and justify their reasoning by describing how the measures are related, given two lengths of an object without the unit of measure.	MP8	Centimeter ruler District-approved Websites	
Quarter 3 Week 8	4	2.MD.A.1 2.MD.A.2 2.MD.A.3 2.MD.A.4 2.MD.B.5 2.MD.B.6 (Supporting work of the grade)	Support: GoMath: Personal Math Trainer, Math on the Spot Video, Reteach Lessons. Continue using Manipulatives. Choose a reasonable estimate for a measurement provided in inches, feet, yards, centimeters, and meters. Enrichment: GoMath: Enrich Lessons, Advanced Learners Activities, Grab & Go Kit, and High-Stakes Assessment Booklet. Estimate the length of a given object with more than one unit of measure and justify their reasonableness for each estimate.	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8	Go Math Text and Grab & Go Kit Manipulatives: Base ten-unit cubes Centimeter ruler Meter stick District-approved Websites	Daily formative assessments Teacher observation Exit Tickets Unit test GoMath Ch 9 Mastery Connect
Quarter 3 Week 9	5	2.MD.D.9 2.MD.D.10 (All supporting work of the grade)	Support: GoMath: Personal Math Trainer, Math on the Spot Video, Reteach Lessons. Continue using Manipulatives. Show the measurements by making a line plot, when given measurement data pre-sorted into categories and a pre-drawn line plot where the horizontal scale is marked off in whole number units. Enrichment: GoMath: Enrich Lessons, Advanced Learners Activities, Grab & Go Kit, and High-Stakes Assessment Booklet. Generate a second set of data by measuring the same objects using a different unit. Show the measurements by making two line plots, one for each set	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8	Go Math Text and Grab & Go Kit Manipulatives: Inch Rulers Connecting Cubes District-approved Websites	Daily formative assessments Teacher observation Exit Tickets

			of data, where the horizontal scales are marked off in whole-number units.			
Quarter 3 Week 10	5	2.MD.D.10 (Supporting work of the grade)	<p>Support: GoMath: Personal Math Trainer, Math on the Spot Video, Reteach Lessons. Continue using Manipulatives. Draw a pictograph to represent a sorted data set with up to three categories. Each picture symbol represents a single element in the data set. Draw a bar graph with intervals of one to represent a sorted data set with up to three categories.</p> <p>Enrichment: GoMath: Enrich Lessons, Advanced Learners Activities, Grab & Go Kit, and High-Stakes Assessment Booklet. Decide if a pictograph or bar graph better represents a data set and provide justification.</p>	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8	Go Math Text and Grab & Go Kit Manipulatives: Connecting Cubes District-approved Websites	Daily formative assessments Teacher observation Exit Tickets Unit test GoMath Ch10 Mastery Connect

2nd Grade Math
Pacing Guide Second Semester

4th Quarter

Title:

Geometric Concepts (Shapes and Fractions)

Time

Money

Essential Questions:

What are some two-dimensional shapes and three-dimensional shapes?

How can you show equal parts of shapes?

How do you use the values of coins and bills to find the total value of a group of money?

How do you read times shown on analog and digital clocks?

Quarter 4 Readiness Review Standards

Time: Tell time to the nearest five minutes & quarter hour.

2.MD.C.7 (Supporting Content): Tell and write time in quarter hours and to the nearest five minutes (in a.m. and p.m.) using analog and digital clocks.

Shapes: Identify 2-Dimensional Shapes including number of sides, vertices, and angles. Resource: GoMath Chapter 11 Lessons 4 and 5

2.G.A.1 (Supporting Content): Identify triangles, quadrilaterals, pentagons, hexagons, and cubes. Draw two-dimensional shapes having specified attributes (as determined directly or visually, not by measuring), such as a given number of angles or a given number of sides of equal length.

Money: Count sets of coins and dollars.

2.MD.C.8 (Supporting Content): Solve contextual problems involving dollar bills, quarters, dimes, nickels, and pennies using ¢ and \$ symbols appropriately.

Grade Readiness

Readiness skills (behaviors): Students can:

- distinguish between attributes that define a shape.
- build and draw two-dimensional shapes.
- use two-dimensional shapes to create new shapes.
- partition circles and rectangles into two and four equal shares.
- count the value of a set of like coins less than one dollar using the ¢ symbol only.
- tell and write time in hours and half-hours using analog and digital clocks.

Knowledge (Standards): Students who demonstrate understanding can:

- identify a triangle, cube, quadrilateral, pentagon, and hexagon.
- draw a shape given specific attributes.
- identify fractions using halves, thirds, and fourths.
- partition circles and rectangles into equal shares.
- partition a rectangle into rows and column and identify the total number of squares.
- use repeated addition to find the total number of objects in a rectangular array.
- read and write time to the nearest five minutes and in quarter hours.
- count sets of mixed coins (penny, nickel, dime, quarter using ¢ and \$ symbols appropriately).
- solve word problems involving money (penny, nickel, dime, quarter, and dollar).

Pacing	Instruct. Days	TN Standards	Differentiation (ELL, SPED, Intervention, Enrichment)	Mathematical Processes	Resources	Assessments/ District Benchmarks/ State Exams
Quarter 4 Week 1	5	2.G.A.1 2.G.A.3 (All supporting work of the grade)	Support: GoMath: Personal Math Trainer, Math on the Spot Video, Reteach Lessons. Continue using Manipulatives. Correctly name shapes regardless of their orientation or size. Describe similarities and differences between two-dimensional shapes. Enrichment: GoMath: Enrich Lessons, Advanced Learners Activities, Grab & Go Kit, and High-Stakes Assessment Booklet. Draw two-dimensional shapes having at least two specified attributes (as determined directly or visually, not by measuring), such as a given number of angles and a given number of sides of equal length.	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8	Go Math Text and Grab & Go Kit Manipulatives: Three-dimensional shape Pattern Blocks District-approved Websites	Daily formative assessments Teacher observation Exit Tickets
Quarter 4 Week 2	5	2.G.A.2 2.G.A.3 2.OA.C.4 (All supporting work of the grade)	Support: GoMath: Personal Math Trainer, Math on the Spot Video, Reteach Lessons. Continue using Manipulatives. Identify how many squares are in a given rectangle that has been partitioned into rows and columns of same-sized squares by counting. Partition a rectangle into two or four equal shares. Enrichment: GoMath: Enrich Lessons, Advanced Learners Activities, Grab & Go Kit, and High-Stakes Assessment Booklet. Partition the same rectangle into halves (thirds/fourths) in more than one way and explain why all of the halves (thirds/fourths) are equal despite not having the same shape.	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8	Go Math Text and Grab & Go Kit Manipulatives: Color Cubes Two-color counters District-approved Websites EngageNY, Module 6, Lesson 6 <u>Illustrative Mathematics, Partitioning a Rectangle into Unit Squares</u> <i>[Note: The tick marks on the rectangle provided are not evenly spaced. If using this task, create a rectangle template with evenly spaced tick marks.]</i>	Daily formative assessments Teacher observation Exit Tickets Unit test GoMath Ch11 Mastery Connect

Quarter 4 Week 3	4	2.OA.A.1 (Major work of the grade) 2.MD.C.8 (Supporting work of the grade)	Support: GoMath: Personal Math Trainer, Math on the Spot Video, Reteach Lessons. Continue using Manipulatives. Count the value of a set of mixed coins less than one dollar using the ¢ symbol. Count the value of a collection of mixed bills using the dollar sign. Enrichment: GoMath: Enrich Lessons, Advanced Learners Activities, Grab & Go Kit, and High-Stakes Assessment Booklet. Solve complex, two-step contextual problems involving dollar bills, quarters, dimes, nickels, and pennies using ¢ and \$ symbols appropriately.	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8	Go Math Text and Grab & Go Kit Manipulatives: Play coins and dollars District-approved Websites	Daily formative assessments Teacher observation Exit Tickets
Quarter 4 Week 4	5	2.MD.C.7 (Supporting work of the grade)	Support: GoMath: Personal Math Trainer, Math on the Spot Video, Reteach Lessons. Continue using Manipulatives. Tell and write time in hours and half-hours using analog and digital clocks. Enrichment: GoMath: Enrich Lessons, Advanced Learners Activities, Grab & Go Kit, and High-Stakes Assessment Booklet. Show the time using analog and digital clocks, given a time in quarter hours or a time to the nearest five minutes.	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8	Go Math Text and Grab & Go Kit Manipulatives: Analog clock models Digital clock models District-approved Websites	Daily formative assessments Teacher observation Exit Tickets Unit test GoMath Ch 7 Mastery Connect
Quarter 4 Week 5	5	Review – Number Relationships and Patterns 2.NBT.A 2.OA.C	Support: GoMath: Personal Math Trainer, Math on the Spot Video, Reteach Lessons. Continue using Manipulatives. Enrichment: GoMath: Enrich Lessons, Advanced Learners Activities, Grab & Go Kit, and High-Stakes Assessment Booklet.	MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8	Go Math Text and Grab & Go Kit Manipulatives: Base-Ten Blocks Hundreds/tens/ones mat District-approved Websites	Daily formative assessments Teacher observation Exit Tickets
Quarter 4 Week 6	5	Review – Computation with Whole Numbers	Support: GoMath: Personal Math Trainer, Math on the Spot Video, Reteach Lessons.	MP1 MP2 MP3	Go Math Text and Grab & Go Kit	Daily formative assessments

		2.OA.A 2.OA.B 2.NBT.B	Continue using Manipulatives. Enrichment: GoMath: Enrich Lessons, Advanced Learners Activities, Grab & Go Kit, and High-Stakes Assessment Booklet.	MP4 MP5 MP6 MP7 MP8	Manipulatives: Base-Ten Blocks District-approved Websites	Teacher observation Exit Tickets
Quarter 4 Week 7	5	Review standards previously taught				
Quarter 4 Week 8	5	Getting Ready for Third Grade 2.OA.B.2 / 3.OA.D.9 2.OA.B.5 / 3.NBT.A.1 2.NBT.B.7 / 3.NBT.A.1	Support: GoMath: Personal Math Trainer, Math on the Spot Video, Reteach Lessons. Continue using Manipulatives. Enrichment: GoMath: Enrich Lessons, Advanced Learners Activities, Grab & Go Kit, and High-Stakes Assessment Booklet.		GoMath Text: Getting Ready Lessons and Resources www.thinkcentral.com Manipulatives: Number Charts District-approved Websites	Daily formative assessments Teacher observation Exit Tickets
Quarter 4 Week 9	5	Getting Ready for Third Grade 2.NBT.A.4 / 3.NF.A.3d 2.OA.C.4 / 3.OA.A.1	Support: GoMath: Personal Math Trainer, Math on the Spot Video, Reteach Lessons. Continue using Manipulatives. Enrichment: GoMath: Enrich Lessons, Advanced Learners Activities, Grab & Go Kit, and High-Stakes Assessment Booklet.		GoMath Text: Getting Ready Lessons and Resources www.thinkcentral.com Manipulatives: Two color counters District-approved Websites	Daily formative assessments Teacher observation Exit Tickets

MATHEMATICAL PRACTICES

MP1 Make sense of problems and persevere in solving them.

MP2 Reason abstractly and quantitatively.

MP3 Construct viable arguments and critique the reasoning of others.

MP4 Model with Mathematics.

MP5 Use appropriate tools strategically.

MP6 Attend to precision.

MP7 Look for and make use of structure.

MP8 Look for and express regularity in repeated reasoning.