

MATHEMATICS/Grade

Curriculum Guide

To support strong classroom instruction, the TDOE has created instructional focus documents for mathematics. These documents were developed to target the mathematics standards where statewide data indicated students struggled the most and are optional supplements for educators to consider. The purpose of these documents is to provide teachers with examples of learning across all performance levels to help educators determine the depth of a student's conceptual understanding of the Tennessee mathematics standards. You may access these documents using this link: [Math Standards Crosswalk](#)

Best for All Central is designed to be a one-stop shop for academic needs. <https://bestforall.tnedu.gov/academic-standards/math>

1 st Quarter				
Standard(s)	Learning Objective(s) Essential Understanding	Savvas Alignment	Assessments	Pacing
Topic 1 – Fluently Add and Subtract Within 20				
2.OA.B.2	Fluently add and subtract within 20.	TN -1 Topic Opener – Fluently add and subtract within 20 T p.1-4	- Daily Review - Today's Challenge - Online Quick Checks - Online Math Games - Standards Practice - Workbook Pages	1/2 day
2.OA.B.2	Use counting on to add numbers and add numbers in any order.	1-1 Addition Fact Strategies p. 5-8		1/2 day
2.OA.B.2	Use doubles and near doubles to add quickly and accurately.	1-2 Doubles and Near Doubles p.9-12		1 day
2.OA.B.2	Use the strategy of making a ten to add quickly and accurately.	1-3 Make a 10 to Add p.13-16		1 day
2.OA.B.2	Use a number pattern on an addition facts table to complete addition equations.	1-4 Addition Fact Patterns p.17-20		1 day
2.OA.B.2	Count on and count back on a number line to subtract.	1-5 Count On and Count Back to Subtract p.21-24		1 day

2.OA.B.2	Think addition to subtract quickly and accurately.	1-6 Think Addition to Subtract p.25-28		1 day
2.OA.B.2	Make a 10 to subtract quickly and accurately.	1-7 Make a 10 to Subtract p.29-32		1 day
2.OA.B.2	Add and subtract quickly and accurately using mental math strategies.	1-8 Practice Addition and Subtraction Facts p.33-36		1 day
2.OA.A.1	Use addition and subtraction to solve word problems.	1-9 Solve Addition and Subtraction Word Problems p.37-40		1 day
2.OA.A.1 2.OA.B.2		Topic 1: 3-Act Math – Losing Marbles p.4		1/2 day
2.OA.A.1 2.OA.B.2	Use words, pictures, numbers, and symbols to construct viable math arguments.	Problem Solving Construct Arguments p.41		1/2 day
2.OA.B.2 2.OA.A.1		Topic 1: End of Topic p.45-56	- Fluency - Vocabulary Review - Reteaching - Assessment Practice	1 day
2.OA.B.2 2.OA.A.1		Topic 1 Assessment p.51-52	Topic 1 Assessment	1 day
Topic 2 Work with Equal Groups				
2.OA.C	Working with Equal Groups.	TN -2 Topic Opener – Work with Equal Groups p.57-60	- Daily Review - Today's Challenge - Online Quick Checks - Online Math Games - Standards Practice - Workbook Pages	1 day
2.OA.C.3 2.OA.B.2	Tell if a group of objects is even or odd.	2-1 Even and Odd Numbers p.61		1 day
2.OA.C.3 2.OA.B.2	Use different ways to tell if a group of objects shows an even or odd number.	2-2 Continue Even and Odd Numbers p.65-68		1 day
2.OA.C.4 2.OA.B.2	Find the total number of objects in a set of rows and columns.	2-3 Use Arrays to Find Totals p.69-72		1 day
2.OA.C.4 2.OA.B.2	Make arrays with equal rows or equal columns to solve addition problems.	2-4 Make arrays to Find Totals p.69-72		1 day
2.OA.B.2 2.OA.A.1 2.OA.C.4	Model problems using equations, drawings, and arrays.	2-5 Problem Solving – Model with Math p.77-80		1 day

2.OA.C.3 2.OA.C.4 2.OA.B.2		Topic 2: End of Topic p.81-88	• Fluency • Vocabulary Review • Reteaching • Assessment Practice	1 day
2.OA.C.3 2.OA.C.4 2.OA.B.2		Topic 2 Assessment p.85-86	Topic 2 Assessment	1 day
Topic 3 Add Within 100 Using Strategies				
2.NBT.B	• Add within 100 using strategies.	TN -3 Topic Opener – Add Within 100 Using Strategies p.89-92	• Daily Review • Today's Challenge • Online Quick Checks • Online Math Games • Standards Practice • Workbook Pages	1/2 day
2.NBT.B.5	• Add within 100 using place value strategies and a hundred chart.	3-1 Add Tens and Ones on a Hundred Chart p.93-96		1/2 day
2.NBT.B.5	• Use an open number line to add tens and ones with 100.	3-2 Add Tens and Ones on an Open Number Line p.97-100		1 day
2.NBT.B.5	• Break apart numbers into tens and ones to find their sum.	3-3 Break Apart Numbers to Add p. 101-104		1 day
2.NBT.B.5	• Break apart addends and combine them in different ways to make numbers that are easy to add mentally.	3-4 Add Using Compensation p.105-108		1 day
2.NBT.B.5	• Choose and use any strategy to add two-digit numbers.	3-5 Practice Adding Using Strategies p.109-112		1 day
2.OA.D.1	• Find and explain patterns in an addition chart.	TN-1 Patterns in an Addition Chart p.1A (Lesson for TN at the end of the TE)		1 day
2.OA.A.1 2.OA.C.4		Topic 3: 3-Act Math – Piled Up p.92		1/2 day
2.OA.A.1	• Use drawings and equations to solve one-step and two-step problems.	3-6 Solve One-Step and Two-Step Problems p.113-116	• Daily Review • Today's Challenge • Online Quick Checks • Online Math Games • Standards Practice	1/2 day
2.OA.A.1 2.NBT.B.5	• Use words, pictures, numbers, and symbols to construct viable math arguments.	3-7 Problem Solving Construct Arguments p.117-120		1 day

			Workbook Pages	
2.NBT.5 2.OA.D.1 2.OA.A.1 2.OA.C.4		Topic 3: End of Topic p.121-132	- Fluency - Vocabulary Review - Reteaching - Assessment Practice	1 day
2.NBT.5 2.OA.D.1 2.OA.A.1 2.OA.C.4		Topic 3 Assessment p.127-128	Topic 3 Assessment	1 day
Topic 4 Fluently Add Within 100				
2.NBT.B	Fluently add within 100.	TN - 4 Topic Opener – Fluently Add Within 100 p.133-136	- Daily Review - Today's Challenge - Online Quick Checks - Online Math Games - Standards Practice - Workbook Pages	1 day
2.OA.B.2	Use mental math strategies to solve addition problems through 30.	TN-2 Mental Math Strategies: Add Within 30 p.9 (Lesson for TN at the end of the TE)		1 day
2.NBT.B.5	Use models to add 2-digit numbers and then explain the work.	4-1 Add 2-Digit Numbers Using Models p.137-140		1 day
2.NBT.B.5 2.OA.A.1	Add 2-digit numbers using models.	4-2 Continue to Add 2-Digit Numbers Using Models p.141-144		1 day
2.NBT.B.5 2.OA.A.1	Add using place value and partial sums.	4-3 Add with Partial Sums p.145-148		1 day
2.NBT.B.5	Add using mental math, place value, and partial sums.	4-4 Add Using Mental Math and Partial Sums p.149-152		1 day
2.NBT.B.5	Add using place value strategies and mental math.	4-5 Break Apart Numbers and Add Using Mental Math p.153-156		1 day
2.NBT.B.5 2.NBT.B.6	Add three or four 2-digit numbers.	4-6 Add More Than Two 2-Digit Numbers p.157-160		1 day
2.NBT.B.5 2.NBT.B.6	Practice using strategies to add more than two numbers.	4-7 Practice Adding Using Strategies p.161-164		1 day
2.OA.A.1 2.NBT.B.5 2.NBT.B.6	Use drawings, models, and equations to solve one- and two-step problems.	4-8 Solve One-Step and Two-Step Problems p.165-168		1 day

2.NBT.B.5 2.NBT.B.6	Make models to help solve math problems.	4-9 Problem Solving Model with Math p.169-172		1 day
2.OA.A.1 2.NBT.B.5 2.NBT.B.6		Topic 4: End of Topic p.173-184	- Fluency - Vocabulary Review - Reteaching - Assessment Practice	2 days
2.OA.A.1 2.NBT.B.5 2.NBT.B.6		Topic 4 Assessment p.179-180	Topic 4 Assessment	1 day

2nd Quarter				
Standard(s)	Learning Objective(s)	Savvas Alignment	Assessments	Timeframe
Topic 5 Subtract Within 100 Using Strategies				
2.NBT.B	Subtract within 100 using strategies.	TN - 5 Topic Opener – Subtract Within 100 Using Strategies p.185-188	- Daily Review - Today's Challenge - Online Quick Checks - Online Math Games - Standards Practice - Workbook Pages	1/2 day
2.NBT.B.5	Subtract tens and ones on a hundred chart.	5-1 Subtract Tens and Ones on a Hundred Chart p.189-192		1/2 day
2.NBT.B.5	Count back to subtract on an open number line.	5-2 Count Back to Subtract on an Open Number Line p.193-196		1 day
2.NBT.B.5	Add up to subtract using an open number line.	5-3 Add Up to Subtract Using an Open Number Line p.197-200		1 day
2.NBT.B.5	Break apart numbers to subtract.	5-4 Break Apart Numbers to Subtract p.201-204		1 day
2.NBT.B.5	Make numbers that are easier to subtract and use mental math to find the difference.	5-5 Subtract Using Compensation p.205-208		1 day
2.NBT.B.5 2.OA.A.1		Topic 5: 3-Act Math – Laundry Day p.188		1/2 day
2.NBT.B.5	Choose and use and strategy to subtract 2-digit numbers.	5-6 Practice Subtracting Using Strategies p.209-212		1/2 day
2.NBT.B.5 2.OA.A.1	Solve one- and two-step problems using addition or subtraction.	5-7 Solve One-Step and Two-Step Problems p.213-216		1 day
2.NBT.B.5 2.OA.A.1	Critique the thinking of others by using what is known about addition and subtraction.	5-8 Problem Solving: Critique Reasoning p.217-220		1 day
2.NBT.B.5 2.OA.A.1		Topic 5: End of Topic p.221-232	- Fluency - Vocabulary Review - Reteaching - Assessment Practice	1 day
2.NBT.B.5 2.OA.A.1		Topic 5 Assessment p.227-228	Topic 5 Assessment	1 day
Topic 6 Fluently Subtract Within 100				

2.NBT.B	Subtract within 100 using strategies.	TN - 6 Topic Opener – Fluently Subtract Within 100 p.233-236	- Daily Review - Today's Challenge - Online Quick Checks - Online Math Games - Standards Practice - Workbook Pages	1/2 day
2.OA.B.2	Use mental math strategies to solve subtraction problems.	TN-3 Mental Math Strategies: Subtract Within 30 p.17 (Lesson for TN at the end of the TE)		1/2 day
2.NBT.B.5	Use place value and models to subtract one-digit numbers.	6-1 Subtract 1-Digit Numbers Using Models p.237-240		1 day
2.NBT.B.5	Use place value and models to subtract two-digit numbers.	6-2 Subtract 2-Digit Numbers Using Models p.241-244		1 day
2.NBT.B.5	Subtract using place value and partial differences.	6-3 Subtract Using Partial Differences p.245-248		1 day
2.NBT.B.5	Break apart two-digit numbers to make it easier to subtract.	6-4 Continue to Subtract Using Partial Differences p.249-252		1 day
2.NBT.B.5	Subtract two-digit numbers using a variety of subtraction strategies.	6-5 Practice Subtracting p.253-257		1 day
2.NBT.B.5 2.OA.A.1	Use models and equations to solve word problems.	6-6 Solve One-Step and Two-Step Problems p.257-260		1 day
2.OA.A.1	Reason about word problems and use bar diagrams and equations to solve them.	6-7 Problem Solving: Reasoning p. 261-264		1 day
2.NBT.B.5 2.OA.A.1 2.OA.B.2		Topic 6: End of Topic p.265-276	- Fluency - Vocabulary Review - Reteaching - Assessment Practice	1 day
2.NBT.B.5 2.OA.A.1 2.OA.B.2		Topic 6 Assessment p.271-272	Topic 6 Assessment	1 day
Topic 7 More Solving Problems Involving Addition and Subtraction				
2.OA.A	Solving problems involving addition and subtraction.	TN - 7 Topic Opener – More Solving Problems Involving Addition and Subtraction p.277-280	- Daily Review - Today's Challenge - Online Quick Checks - Online Math Games	1 day
2.OA.A.1 2.NBT.B.5	Model problems using equations and unknowns in any position.	7-1 Represent Addition and Subtraction Problems p.281-284		1 day
2.OA.A.1 2.NBT.B.5	Use drawings and equations to make sense of the words in problems.	7-2 Mixed Practice: Solve Addition and Subtraction Problems p.285-288		1 day

2.OA.A.1 2.NBT.B.5	Use drawings and equations to make sense of the words in problems.	7-3 Continue Practice with Addition and Subtraction Problems p.289-292	- Standards Practice - Workbook Pages	1 day
2.OA.A.1 2.NBT.B.5	Model and solve two-step problems using equations.	7-4 Solve Two-Step Problems p.293-296		1 day
2.OA.A.1 2.NBT.B.5	Use different ways to solve two-step problems.	7-5 Continue to Solve Two-Step Problems p.297-300		1 day
2.OA.A.1 2.NBT.B.5		Topic 7: 3-Act Math – The Water Jug p.280		1 day
2.OA.A.1 2.NBT.B.5	Find unknown numbers in equations that relate four whole numbers.	7-6 Make True Equations p.301-304	- Daily Review - Today's Challenge - Online Quick Checks - Online Math Games - Standards Practice - Workbook Pages	1 day
2.NBT.B.5	Find unknown numbers in equations that relate four whole numbers.	7-7 Continue to Make True Equations p.305-308		1 day
2.OA.D.1	Find and explain patterns in a hundred chart.	TN-4 Patterns in a Hundred Chart p.25 (Lesson for TN at the end of the TE)		1 day
2.OA.A.1	Use reasoning to write and solve number stories.	7-8 Problem Solving: Reasoning		1 day
2.OA.A.1 2.NBT.B.5 2.OA.D.1		Topic 7: End of Topic p.313-324	- Fluency - Vocabulary Review - Reteaching - Assessment Practice	3 days
2.OA.A.1 2.NBT.B.5 2.OA.D.1		Topic 7 Assessment p.319-320	Topic 7 Assessment	1 day
Topic 8 Work with Time and Money				
2.MD.C	Work with time and money.	TN - 8 Topic Opener – Work with Time and Money p.325-328	- Daily Review - Today's Challenge - Online Quick Checks	1/2 day
2.MD.C.8 2.NBT.A.2	Solve problems with coins.	8-1 Solve Problems with Coins p.329-323		1/2 day
2.MD.C.8 2.NBT.A.2	Solve problems with coins.	8-2 Continue to Solve Problems with Coins p.333-336		1 day

2.MD.C.8 2.NBT.A.2	Solve problems with dollar bills and coins that model 100 cents.	8-3 Solve Problems with Dollar Bills p.337-340	- Online Math Games - Standards Practice - Workbook Pages	1 day
2.MD.C.8 2.NBT.A.2	Solve more problems with dollar bills.	8-4 Continue to Solve Problems with Dollar Bills p. 341-344		1 day
2.MD.C.8 2.OA.A.1	Reason about values of coins and find different ways to make the same total value.	8-5 Problem Solving: Reasoning p.345-348		1 day
2.MD.C.7	Tell and write time to the nearest five minutes.	8-6 Tell and Write Time to Five Minutes p.349-352		1 day
2.MD.C.7 2.NBT.A.2	Say the time in different ways.	8-7 Tell Time Before and After the Hour p.353-356		1 day
2.MD.C.7 2.NBT.A.2	Tell time and use reasoning to state if the event is happening in the a.m. or p.m.	8-8 A.M. and P.M. p.357-360		1 day
2.MD.C.7 2.MD.C.8 2.NBT.A.2 2.OA.A.1		Topic 8: End of Topic p.361-372	- Fluency - Vocabulary Review - Reteaching - Assessment Practice	1 day
2.MD.C.7 2.MD.C.8 2.NBT.A.2 2.OA.A.1		Topic 8 Assessment p.367-368	Topic 8 Assessment	1 day

3rd Quarter				
Standard(s)	Learning Objective(s)	Savvas Alignment	Assessments	Timeframe
Topic 9: Numbers to 1,000				
2.NBT.A.1	Count, read, and show numbers to 1,000.	Topic 9: Topic Opener- Numbers to 1,000 p. 373-374	- Daily Review - Today's Challenge - Online Quick Checks - Online Math Games - Standards Practice - Workbook Pages	1 day
2.NBT.A.1	Understand place value and count by hundreds to 1,000.	9-1: Understand Hundreds p. 377A-380B		1 day
2.NBT.A.1 2.NBT.A.3	Use place-value blocks and drawings to model and write 3-digit numbers.	9-2 Models and 3-Digit Numbers p. 381A-384B		1 day
2.NBT.A.1 2.NBT.A.3	Tell the value of a digit by where it is placed in a number.	9-3 Name Place Values p. 385A-388B		1 day
2.NBT.A.1 2.NBT.A.3	Read and write 3-digit numbers in expanded form, standard form, and word form.	9-4 Read and Write 3-Digit Numbers p. 389A-392B		1 day
2.NBT.A.1 2.NBT.A.3	Make and name a number in different ways to show the same value.	9-5 Different Ways to Name the Same Number p. 393A-396B		1 day
2.NBT.A.2 2.NBT.C.8	Use place-value patterns to mentally count by 1s and 10s from a given number.	9-6 Place Value Patterns with Numbers p. 397A-400B		1 day
2.NBT.A.2 2.NBT.C.8	Skip count by 5s, 10s, and 100s using a number line.	9-7 Skip Count by 5s, 10s, 100s, 1,000s. p. 401A-404B		1 day
2.NBT.A.2	Recognize and apply pattern rules when counting by 1s, 2s, 5s, 10s, and 100s.	TN-5 Number Patterns p. T29A (Lesson for TN at the end of the TE)		½ day
2.NBT.A.4 2.NBT.A.1	Compare numbers using place value.	9.8 Compare Numbers Using Place Value p.405A-408B		1 day
2.NBT.A.1 2.NBT.A.3 2.NBT.A.2 2.NBT.C.8 2.MD.C.8		3-ACT Math: Make Cents p. 373		½ day
2.NBT.A.4 2.NBT.A.1	Compare and write a 3-digit number that is greater than or less than another 3-digit number.	9.9 Compare Numbers on the Number Line p. 409A-412B		1 day
2.NBT.A.1 2.NBT.A.4 2.NBT.C.8	Look for patterns to help when solving problems.	9.10 Problem Solving: Look for and Use Structure p.413A-416B		1 day

2.NBT.A.1 2.NBT.A.4 2.NBT.C.8		Topic 9 End of Topic p. 427-428A	• Fluency • Vocabulary Review • Reteaching • Assessment Practice	1 day
2.NBT.A.1 2.NBT.A.4 2.NBT.C.8		Topic 9 Assessment p. 423-426	Topic 9 Assessment	1 day
Topic 10: Add Within 1,000 Using Models and Strategies				
2. NBT.C.7	• Strategies for adding number to 1,000.	Topic 10 Opener: Add Within 1,000 Using Models and Strategies p. 429-430	• Daily Review • Today's Challenge • Online Quick Checks • Online Math Games • Standards Practice • Workbook Pages	1 day
2.NBT.C.8 2.NBT.C.7 2.MD.C.8	• Add 10 and 100 mentally using place value.	10-1 Add 10 and 100 p. 433A-436B		1 day
2.NBT.C.7 2.NBT.A.2	• Use an open number line to add 3-digit numbers.	10-2 Add on an Open Number Line p. 427A-440B		1 day
2.NBT.C.7	• Add 3-digit numbers using models.	10-3 Add Using Models p. 441A-444B		1 day
2.NBT.C.7	• Use models and place value to add 3-digit numbers.	10-4 Continue to Add Using Models and Place Value p. 445A-448B		1 day
2.NBT.C.7	• Add 3-digit numbers using place value and partial sums.	10-5 Add Using Place Value and Partial Sums p. 449A-452B		1 day
2.NBT.C.7	• Use different addition strategies and explain why they work.	10-6 Explain Addition Strategies p. 453A-456B		1 day
2.NBT.C.7	• Identify calculations or steps that repeat when solving problems.	10-7 Problem Solving: Repeated Reasoning p.457A-460B		1 day
2.NBT.A.2 2.NBT.C.8 2.NBT.C.7 2.MD.C.8		Topic 10 End of Topic/Performance Task p. 467-468A	• Fluency • Vocabulary Review • Reteaching • Assessment Practice	1 day
2.NBT.A.2 2.NBT.C.8		Topic 10 Assessment p. 465-466A	Topic 10 Assessment	1 day

2.NBT.C.7 2.MD.C.8				
Topic 11: Subtract Within 1,000 Using Models and Strategies				
2.NBT.C.7 2.NBT.C.8	Strategies for subtracting numbers to 1,000.	Topic 11 Topic Opener: Subtract Within 1,000 Using Models and Strategies	- Daily Review - Today's Challenge - Online Quick Checks - Online Math Games - Standards Practice - Workbook Pages	1 day
2.NBT.C.8 2.NBT.C.7 2.MD.C.8	Subtract 10 or 100 mentally using place-value strategies.	11-1 Subtract 10 and 100 p. 473A-476B		1 day
2.NBT.C.7 2.NBT. A.2	Use an open number line to subtract 3-digit numbers.	11-2 Subtract on an Open Number Line p. 477A-480B		1 day
2.NBT.C.7	Use models to subtract 3-digit numbers.	11-3 Subtract Using Models p. 481A-484B		1 day
2.NBT.C.7 2.MD.C.8	Use models and place value to subtract.	11-4 Subtract Using Models and Place Value p. 485A-488B		1 day
2.NBT.C.7	Explain why subtraction strategies work using models, place value, and mental math.	11-5 Explain Subtraction Strategies p. 489A-492B		1 day
2.NBT.B.8	Mentally add and subtract 10 or 100 from a number.	TN-6: Add or Subtract 10 or 100 p. T41A-T44 (Lesson for TN at the end of the TE)		½ day
2.NBT.C.7		Topic 11- 3-Act Math: The Chemistry Set p. 472-472C		½ day
2.NBT.C.7	Solve problems that take more than one step.	11-6 Add or Subtract 10 or 100 p. 493A-496B		1 day
2.NBT.C.7 2.MD.C.8		Topic 11 End of Topic p. 503-504A	- Fluency - Vocabulary Review - Reteaching - Assessment Practice	1 day
2.NBT.C.7 2.MD.C.8		Topic 11 Assessment p. 501-502A	Topic 11 Assessment	1 day
Topic 12: Measuring Length				
2.MD.A.1 2.MD.A.3	Ways to measure length.	Topic 12 Topic Opener: Measuring Length p. 505-506	Daily Review	½ day

2.MD.A.3	Estimate the length of an object by relating the length of an object to a known measurement.	12-1 Estimating Length p. 509A-512B	- Today's Challenge - Online Quick Checks - Online Math Games - Standards Practice - Workbook Pages	½ day
2.MD.A.1 2.MD.A.3	Estimate measures and use a ruler to measure length and height to the nearest inch.	12-2 Measure with Inches p. 513A-516B		1 day
2.MD.A.1 2.MD.A.3	Estimate measures and use tools to measure the length and height of objects to the nearest inch, foot, and yard.	12-3 Inches, Feet, and Yards p. 517A-520B		1 day
2.MD.A.2 2.MD.A.1	Estimate and measure the length and height of objects in inches, feet, and yards.	12-4 Measure Length Using Different Customary Units p. 521A-524B		1 day
2.MD.A.1 2.MD.A.3	Estimate measures and use a ruler to measure length and height to the nearest centimeter.	12-5 Measure with Centimeters p. 525A-528B		1 day
2.MD.A.1 2.MD.A.3	Estimate measure and use a ruler, meter stick, or tape measure to measure length and height to the nearest centimeter or meter.	12-6 Centimeters and Meters p. 529A-532B		1 day
2.MD.A.2 2.MD.A.1	Measure the length and height of objects using different metric units.	12-7 Measure Length Using Different Metric Units p. 533A-536B		1 day
2.MD.A.4 2.MD.B.5	Tell how much longer on object is than another.	12-8 Compare Lengths p. 537A-540B		1 day
2.MD.A.1 2.MD.A.3 2.MD.A.4	Choose tools, units, and methods that help to be precise when measuring.	12-9 Problems Solving: Precision p. 541A-544B		1 day
2.MD.A.1 2.MD.A.2 2.MD.A.3 2.MD.A.4 2.MD.B.5		Topic 12 End of Topic p. 555-556A	- Fluency - Vocabulary Review - Reteaching - Assessment Practice	½ day
2.MD.A.1 2.MD.A.2 2.MD.A.3 2.MD.A.4 2.MD.B.5		Topic 12 Assessment p. 551-554B	Topic 12 Assessment	½ day

Topic 13: Shapes and Their Attributes

2.G.A.2 2.OA.C.4	Show how shapes can be described, compared, and broken into parts.	Topic 13 Topic Opener: Shapes and Their Attributes p.557-558	- Daily Review - Today's Challenge - Online Quick Checks - Online Math Games - Standards Practice - Workbook Pages	½ day
2.G.A.1 2.OA.B.2	Recognize shapes by how they look.	13-1 2-Dimensional Shapes p. 561A-564B		½ day
2.G.A.1 2.MD.A.1	Describe plane shapes by how they look.	13-2 Polygons and Angles p. 565A-568B		1 day
2.G.A.1 2.MD.A.1	Draw polygon shapes.	13-3 Draw 2-Dimensional Shapes p. 569A-572B		1 day
2.G.A.1 2.MD.A.1	Draw cubes and describe how they look.	13-4 Cubes p. 573A-576B		1 day
2.G.A.2 2.OA.C.4	Partition rectangles into equal-size squares.	13-5 Equal Shares p. 577A-580B		1 day

4 th Quarter				
Standard(s)	Learning Objective(s)	Savvas Alignment	Assessments	Timeframe
2.G.A.3	Partition circles and rectangles into halves, thirds, and fourths.	13-6 Partition Shapes p. 581A-584B	- Daily Review - Today's Challenge - Online Quick Checks - Online Math Games - Standards Practice - Workbook Pages	½ day
2.MD.A.4		Topic 13 3-Act Math: Straw Shaped		½ day
2.G.A.3 2.OA.C.4	Make equal shares that do not have the same shape.	13-7 Equal Shares, Different Shapes p. 585A-588B		1 day
2.G.A.2 2.OA.C.4 2.G.A.3	Use repeated reasoning to show rectangles with rows and columns and create designs with equal shares.	13-8 Problem Solving: Repeated Reasoning p. 589A-592B		1 day
2.G.A.2 2.OA.C.4 2.G.A.3		Topic 13 End of Topic p. 603-604A	- Fluency - Vocabulary Review - Reteaching - Assessment Practice	1 day
2.G.A.2 2.OA.C.4 2.G.A.3		Topic 13 Assessment p. 599-602B	Topic 13 Assessment	1 day
Topic 14: More Addition, Subtraction, and Length				
2.MD.B.5 2.OA.A.1	Add and subtract lengths.	Topic 14 Topic Opener: More Addition, Subtraction, and Length p. 605-606	- Daily Review - Today's Challenge - Online Quick Checks - Online Math Games - Standards Practice - Workbook Pages	1 day
2.MD.B.5 2.OA.A.1	Solve problems by adding or subtracting length measurements.	14-1 Add and Subtract with Measurements p. 609A-612B		1 day
2.MD.B.5 2.OA.A.1	Add or subtract to solve problems about measurements.	14-2 Find Unknown Measurements p. 613A-616B		1 day
2.MD.B.5 2.OA.A.1	Add and subtract to solve measurement problems by using drawings and equations.	14-3 Continue to Find Unknown Measurements p. 617A-620B		1 day
2.MD.B.6 2.OA.A.1	Add and subtract on a number line.	14-4 Add and Subtract on a Number Line p. 621A-624B		1 day
2.MD.B.5 2.OA.A.1	Choose the best tool to use to solve problems.	14-5 Problem Solving: Use Appropriate Tools		1 day

2.MD.B.6		p. 625A-628B		
2.MD.B.5 2.OA.A.1 2.MD.B.6		Topic 14 End of Topic p. 635-636A	• Fluency • Vocabulary Review • Reteaching • Assessment Practice	1 day
2.MD.B.5 2.OA.A.1 2.MD.B.6		Topic 14 Assessment p. 633-634A	Topic 14 Assessment	1 day
Topic 15: Graphs and Data				
2.MD.D.9 2.MD.A.1	• Use line plots, bar graphs, and picture graphs to show data and answer questions.	Topic 15 Topic Opener: Graphs and Data	• Daily Review • Today's Challenge • Online Quick Checks • Online Math Games • Standards Practice • Workbook Pages	1 day
2.MD.D.9	• Create a line plot to represent whole number data.	TN-7: Make Line Plots p.53A (Lesson for TN at the end of the TE)		1 day
2.MD.D.9 2.MD.A.1	• Measure the length of objects and make a line plot to organize the data.	15-1 Line Plots p. 641A-644B		1 day
2.MD.D.9 2.MD.A.1	• Measure lengths of objects, then make a line plot to organize the data.	15-2 More Line Plots p. 645A-648B		1 day
2.MD.D.10 2.OA.A.1	• Draw bar graphs and use them to solve problems.	15-3 Bar Graphs p. 649A-652B		1 day
2.MD.D.10 2.OA.A.1	• Draw picture graphs and use them to solve problems.	15-4 Picture Graphs p. 653A-656B		1 day
2.MD.D.10 2.OA.A.1	• Create a line plot to represent whole-number data.	TN-8 Make Pictographs p. T59A-T64B		1 day
2.MD.D.10 2.OA.A.1	• Draw conclusions from graphs.	15-5 Draw Conclusions from Graphs p. 657A-660B		1 day
2.MD.D.10 2.OA.A.1	• Reason about data in bar graphs and picture graphs to write and solve problems.	15-6 Problem Solving: Reasoning p. 661A-664B		1 day
		Topic 15 End of Topic p. 675-676A	• Fluency • Vocabulary Review • Reteaching • Assessment Practice	1 day

		Topic 15 Assessment p. 671-674B	Topic 15 Assessment	1 day
Project Based Learning				
2.OA.B		Topic 1 – Pick a Project p.1	Project Specific Final Product	1-3 days
2.OA.C		Topic 2 – Pick a Project p.57	Project Specific Final Product	1-3 days
2.NBT.B		Topic 3 – Pick a Project p.89	Project Specific Final Product	1-3 days
2.NBT.B		Topic 4 – Pick a Project p.133	Project Specific Final Product	1-3 days
2.NBT.B		Topic 5 – Pick a Project p.185	Project Specific Final Product	1-3 days
2.NBT.B		Topic 6 – Pick a Project p.233	Project Specific Final Product	1-3 days
2.OA.A		Topic 7 – Pick a Project p.277	Project Specific Final Product	1-3 days
2.MD.C		Topic 8 – Pick a Project p.325	Project Specific Final Product	1-3 days
2.NBT.A		Topic 9 – Pick a Project p.373	Project Specific Final Product	1-3 days
2.NBT.C		Topic 10 – Pick a Project p.429	Project Specific Final Product	1-3 days
2.NBT.C		Topic 11 – Pick a Project p.469	Project Specific Final Product	1-3 days
2.MD.A		Topic 12 – Pick a Project p.505	Project Specific Final Product	1-3 days
2.G.A		Topic 13 – Pick a Project p.557	Project Specific Final Product	1-3 days
2.MD.B		Topic 14 – Pick a Project p.605	Project Specific Final Product	1-3 days
2.MD.D		Topic 15 – Pick a Project p.637	Project Specific Final Product	1-3 days
Next Grade		Step Up Preview Lessons	Step Up Lessons	5 days

Grade 2 Tennessee Standards

TENNESSEE MATHEMATICS STANDARDS

DOMAIN 2.OA: Operations and Algebraic Thinking

CLUSTER 2.OA.A Represent and solve problems involving addition and subtraction.

2.OA.A.1 Add and subtract within 100 to solve one- and two-step contextual problems, with unknowns in all positions, involving situations of *add to*, *take from*, *put together/take apart*, and *compare*. Use objects, drawings, and equations with a symbol for the unknown number to represent the problem.

CLUSTER 2.OA.B Add and subtract within 30.

2.OA.B.2 Fluently add and subtract within 20 using mental strategies. By end of 2nd grade, know all sums of two one-digit numbers and related subtraction facts.

CLUSTER 2.OA.C Work with equal groups of objects to gain foundations for multiplication.

2.OA.C.3 Determine whether a group of objects (up to 20) has an odd or even number of members by pairing objects or counting them by 2s. Write an equation to express an even number as a sum of two equal addends.

2.OA.C.4 Use repeated 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. *For example, a 3 by 4 array can be expressed as $3 + 3 + 3 + 3 = 12$ or $4 + 4 + 4 = 12$.*

CLUSTER 2.OA.D Solve problems involving addition and subtraction and identify and explain patterns in arithmetic.

2.OA.D.1 Identify arithmetic patterns in an addition or hundreds chart and explain them using properties of operations. *For example, analyze patterns in the addition chart and observe an alternating pattern of even and odd numbers (because each time we move to the right one box or down one box, we are adding one more to our sum: $(2 + 3) + 1 = 2 + (3 + 1) = 2 + 4$ which uses the associative property of addition).*

DOMAIN 2.NBT: Number and Operations in Base Ten

CLUSTER 2.NBT.A Understand place value.

2.NBT.A.1 Know that the three digits of a three-digit number represent amounts of hundreds, tens, and ones (e.g., 706 can be represented in multiple ways as 7 hundreds, 0 tens, and 6 ones; 706 ones; or 70 tens and 6 ones).

2.NBT.A.2 Recognize, describe, extend, and create patterns when counting by ones, twos, fives, tens, and hundreds and use those patterns to predict the next number in the counting sequence up to 1000 through counting. *For example: 111, 113, 115, ...; 82, 84, 86, ...; 370, 380, 390; ...; 100, 200, 300, ...; etc.*

2.NBT.A.3 Read and write numbers to 1000 using standard form, word form, and expanded form. *For example, write 234 as $200 + 30 + 4$.*

2.NBT.A.4 Compare two three-digit numbers based on the meanings of the digits in each place and use the symbols $>$, $=$, and $<$ to show the relationship.

CLUSTER 2.NBT.B Use place value understanding and properties of operations to add and subtract.

2.NBT.B.5 Fluently add and subtract within 100 using properties of operations, strategies based on place value, and/or the relationship between addition and subtraction.

2.NBT.B.6 Add up to four two-digit numbers using properties of operations and strategies based on place value.

CLUSTER 2.NBT.C Use place value understanding and properties of operations to add and subtract.

2.NBT.C.7 Add and subtract within 1000 using concrete models, drawings, strategies based on place value, properties of operations, and/or the relationship between addition and subtraction to explain the reasoning used. (Explanations may include words, drawing, or objects.)

2.NBT.C.8 Mentally add or subtract 10 or 100 to/from any given number within 1000.

DOMAIN 2.MD: Measurement and Data

CLUSTER 2.MD.A Measure and estimate lengths in standard units.

2.MD.A.1 Measure the length of an object in whole number units by selecting and using appropriate tools such as rulers, yardsticks, meter sticks, and measuring tapes.

2.MD.A.2 Measure the length of an object using two different whole number units of measure and describe how the two measurements relate to the size of the unit chosen.

2.MD.A.3 Estimate lengths using whole number units of inches, feet, yards, centimeters, and meters.

2.MD.A.4 Measure, using whole number lengths, to determine how much longer one object is than another and express the difference in terms of a standard unit of length.

CLUSTER 2.MD.B Relate addition and subtraction to length.

2.MD.B.5 Add and subtract within 100 to solve contextual problems, with the unknown in any position, involving lengths that are given in the same units by using drawings and equations with a symbol for the unknown to represent the problem.

2.MD.B.6 Represent whole numbers as lengths from 0 on a number line and know that the points corresponding to the numbers on the number line are equally spaced. Use a number line to represent whole number sums and differences of lengths within 100.

CLUSTER 2.MD.C Work with time and money.

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

2.MD.C.8 Solve contextual problems involving amounts less than one dollar including quarters, dimes, nickels, and pennies using the ¢ symbol appropriately. Solve contextual problems involving whole number dollar amounts up to \$100 using the \$ symbol appropriately.

CLUSTER 2.MD.D Represent and interpret data.

2.MD.D.9 Given a set of data, create a line plot, where the horizontal scale is marked off in whole-number units.

2.MD.D.10 Draw a pictograph (with a key of values of 1, 2, 5, or 10) and a bar graph (with intervals of one) to represent a data set with up to four categories. Solve addition and subtraction problems related to the data in a graph.

DOMAIN 2.G: Geometry

CLUSTER 2.G.A Reason about shapes and their attributes.

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

2.G.A.2 Partition a rectangle into rows and columns of same-sized squares and find the total number of squares.

2.G.A.3 Partition circles and rectangles into two, three, and four equal shares. Describe the shares using the words halves, thirds, fourths, half of, a third of, and a fourth of, and describe the whole as two halves, three thirds, four fourths. Recognize that equal shares of identical wholes need not have the same shape.
