

01

Grade: 4

Q4

Mathematics Grade 4- Year at a Glance 2019-2020

Q3

Module 1 Module 2 Module 3 Module 4 Module 5 Module 6 Module 7 N	Module 7
Module 1 Module 2 Module 3 Module 4 Module 5 Module 6 Module 7 M	
Aug 19- Sept 10 Sept 11- Sept 19 Sept 23-Nov 18 Nov 19- Dec 19 Jan 6- Mar 9 Mar 10-April 9 April 3-April 6 April (Lessons 1-8 only) (Lessonly 1-8 only) (Lessonly 1-8 only)	fil 27-May 22
Place Value, Rounding and Algorithms for Subtraction Ont Conversion Multiplication and Division Plane Figures Equivalence, Order and Operations Declamat Placeons Measurement and Measurement of pre- traction	aterial covered r April 12th is an ission of 4 th grade idards or review reviously taught skills
4.0A.A.3 4.MD.A.1 4.0A.A.1 4.MD.C.5 4.NE.A.1 4.NE.C.5 4.0A.A.1	4.0A.A.1
4.0A.A.3 4.MD.A.1 4.0A.A.1 4.MD.C.5 4.NF.A.1 4.NF.C.5 4.0A.A.1 = 4.0A.A.1 4.MD.A.2 4.0A.A.2 9	4.0A.A.2
4.0A.A.3 4.MD.C.7 4.NF.B.3 4.NF.C.7 4.0A.A.3 5	4.0A.A.3
4.NBT.A.2 4.OA.A.3 4.MD.C.7 4.NF.B.3 4.NF.C.7 4.OA.A.3 5 4 4.NBT.A.3 4.OA.B.4 4.GA.1 4.NF.B.4 4.MD.A.2 4.MD.A.1 5 4	
4.NBLB.4 4.NBLB.5 4.G.A.2 4.OA.C.5 4.MD.A.2 2	
4.NBLB.6 4.G.A.3 4.MD.B.4	
4.MD.A.3	

02

Key:

Major Content

Supporting Content

Note: Please use this suggested pacing as a guide. It is understood that teachers may be up to 1 week ahead or 1 week behind depending on the needs of their students.

Use the instructional map and Digital Suite resources as you prepare to teach a module for additional guidance in planning, pacing, and suggestions for omissions Pacing and Preparation Guide (Omissions)

Major Work

➤ Supporting Standards



Quarter: 3

Grade: 4

Introduction

Destination 2025, Shelby County Schools' 10-year strategic plan, is designed not only to improve the quality of public education, but also to create a more knowledgeable, productive workforce and ultimately benefit our entire community.

What will success look like?



In order to achieve these ambitious goals, we must collectively work to provide our students with high quality, college and career ready aligned instruction. The Tennessee State Standards provide a common set of expectations for what students will know and be able to do at the end of a grade. The State of Tennessee provides two sets of standards, which include the Standards for Mathematical Content and The Standards for Mathematical Practice. The Content Standards set high expectations for all students to ensure that Tennessee graduates are prepared to meet the rigorous demands of mathematical understanding for college and career. The eight Standards for Mathematical Practice describe the varieties of expertise, habits of mind, and productive dispositions that educators seek to develop in all students. The Tennessee State Standards also represent three fundamental shifts in mathematics instruction: focus, coherence and rigor.

Instructional Shifts for Mathematics



Throughout this curriculum map, you will see resources as well as links to tasks that will support you in ensuring that students are able to reach the demands of the standards in your classroom. In addition to the resources embedded in the map, there are some high-leverage resources around the content standards and mathematical practice standards that teachers should consistently access. For a full description of each, click on the links below.





Quarter: 3

Grade: 4

How to Use the Maps

Overview

An overview is provided for each quarter and includes the topics, focus standards, intended rigor of the standards and foundational skills needed for success of those standards.

Your curriculum map contains four columns that each highlight specific instructional components. Use the details below as a guide for information included in each column.

Tennessee State Standards

TN State Standards are located in the left column. Each content standard is identified as Major Content or Supporting Content. A key can be found at the bottom of the map.

Content

This section contains learning objectives based upon the TN State Standards. Best practices tell us that clearly communicating measurable objectives lead to greater student understanding. Additionally, essential questions are provided to guide student exploration and inquiry.

Instructional Support

District and web-based resources have been provided in the Instructional Support column. You will find a variety of instructional resources that align with the content standards. The additional resources provided should be used as needed for content support and scaffolding.

Vocabulary and Fluency

The inclusion of vocabulary serves as a resource for teacher planning and for building a common language across K-12 mathematics. One of the goals for Tennessee State Standards is to create a common language, and the expectation is that teachers will embed this language throughout their daily lessons. In order to aid your planning, we have also included a list of fluency activities for each lesson. It is expected that fluency practice will be a part of your daily instruction. (Note: Fluency practice is not intended to be speed drills, but rather an intentional sequence to support student automaticity. Conceptual understanding must underpin the work of fluency.

Instructional Calendar

As a support to teachers and leaders, an instructional calendar is provided **as a guide**. Teachers should use this calendar for effective planning and pacing, and leaders should use this calendar to provide *support* for teachers. Due to variances in class schedules and differentiated support that may be needed for students' adjustment to the calendar may be required.

Major Work

➤ Supporting Standards



Quarter: 3

Grade: 4

Grade 4 Quarter 3 Overview

Module 3: Multi-digit Multiplication and Division Module 4: Angle Measures and Plane Figures

The chart below includes the standards that will be addressed in this quarter, the type of rigor the standards address, and foundational skills needed for mastery of these standards. Consider using these foundational standards to address student gaps during intervention time as appropriate for students.

Focus Grade Level Standard	Explicit Components of Rigor	Foundational Standards
4.NF.A.1	Conceptual Understanding and Procedural Skill and Fluency	3.NF.A.3, 4.OA.A.2, 3.NF.A.1, 3.NF.A.2, 3.OA.A.3
× 4.NF.A.2	Conceptual Understanding	4.NF.A.1, 3.NF.A.3, 4.OA.A.2
4.NF.B.3	Conceptual Understanding, Procedural Skill and Fluency	3.NF.A.1, 3. NF.A.2, 4. NF.A.1, 1. OA.B.3., 2. OA.A.1
4.NF.B.4	Procedural Skill and Fluency	3.NF.A.1, 3.OA.A.1, 4.OA.A.2, 3.OA.A.3, 3.OA.A.4
¥.OA.C.5	Conceptual Understanding	3.OA.D.9, 3.OA.B.5, 2.OA.C.3
4.MD.B.4	Procedural and Application	3.MD.B.4
	Indicates Power Sta	ndard (2017-2018)
	Instructional Focus Docu	ments- Grade 4

Major Work



Quarter: 3

Grade: 4

TN STATE STANDARDS	CONTENT	INSTRUCTIONAL	L SUPPORT & RESOURCES
Module 5: Fraction Equivalence, Order and Operations			
Domain: Number and Operations- Fractions	Module 5: Fraction Equivalence, Ordering	Eureka Parent Newsletter- Topic A	Vocabulary
 Cluster: Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers. 4.NF.B.3b Understand a fraction a/b with a > 1 as a sum of fractions 1/b. b. Decompose a fraction into a sum of fractions with the same denominator in more than one 	and Operations	Optional Quiz-Topic A Pacing considerations: Combine lessons 1 and 2. Omit lesson 4. Suggestions for combining: Lesson 1 and 2 Fluency:	 =, <, or, >, compose, decompose, equivalent Fractions, fraction, fractional unit, multiple, Non-unit fractions, unit fractions, unit interval, Whole Terminology Benchmark, common denominator, Fraction
way, recording each decomposition by an equation. Justify decompositions, e.g., by using a visual fraction model. Examples: 3/8 = 1/8 +	 How can you use benchmark fractions to compare fractions? How do you write a good mathematical 	Teacher choice Application Problem:	Greater than 1, line plot, mixed number, Numerator Additional instructional resources for
1/8 + 1/8; 3/8 = 1/8 + 2/8; 2 1/8 = 1 + 1 + 1/8 = 8/8 + 8/8 + 1/8.	explanation?7. How can you add and subtract fractions with like denominators?8. What operation is needed to solve a	Lesson 1 Concept Development	Remediation Guide
4.NF.B.4a Apply and extend previous understandings of multiplication to multiply a fraction by a whole number.a. Understand a fraction a/b as a multiple of	 What operation is needed to solve a problem with fractions? Topic A: Decomposition and Fraction Equivalence 	 Teach Lesson 1 with Lesson 2- Problems 1,2 and 3 In Lesson 2, Problem 3 there is a fraction greater than one which extends the lesson 	Ready teacher-toolbox aligned lessons <u>Understand Fraction Addition and</u> <u>Subtraction</u> Ready teacher-toolbox aligned lessons
1/b. For example, use a visual fraction model to represent 5/4 as the product $5 \times (1/4)$, recording the conclusion by the equation $5/4 = 5 \times (1/4)$.	Lesson Objectives/Learning Targets: 1-2: <i>I can</i> decompose fractions as a sum of unit fractions using tape diagrams. (4.NF.B.3b)	 Teach Lesson 1, Problems 3 and 4 The Exit ticket focuses on fractions less than one 	Understand Fraction Addition and Subtraction
	Lesson 3: <i>I can</i> decompose non-unit fractions and represent them as a whole number times a unit fraction using tape diagrams. (4.NF.B.4a) Lesson 4: <i>I can</i> decompose fractions into sums of smaller unit fractions using tape diagrams. (4.NF.B.3b 4.NF.B4a) (can be omitted)	Problem Set Select Must Do problems that have fractions less than 1 for Lesson 1 and 2 Debrief/Exit Ticket Complete Lesson 1 and 2	Zearn Lessons Lesson 1: Decompose. Compose. Repeat. Lesson 2: Decompose and Group Lesson 3: Decompose and Multiply Lesson 4: Different Decomposition Lesson 5: Same Share Lesson 6: Area Model- Breakdown!



Quarter: 3

Grade: 4

	CONTENT		
TN STATE STANDARDS		INSTRUCTIONAL	L SUPPORT & RESOURCES
	Lesson 5: <i>I can</i> decompose unit fractions using area models to show equivalence. (4.NF.A.1, 4>NF.B.3,4.NF.B.4a) Lesson 6: <i>I can</i> decompose fractions using area models to show equivalence. (4.NF.A.1, 4.NF.B.3, 4.NF.B.4a)		 embarc.online- Module 5 Videos: Multiply fractions by fractions: finding a part of a part Write a fraction to describe a set Decompose a fraction into a sum of fractions I-Ready Lessons: Fractions as Division Multiplying a Whole Number and a Fraction Multiply Fractions to Find Area Task Bank: Making 22 Seventeenths in Different Ways
 Domain: Number and Operations - Fractions Cluster: Extend understanding of fraction equivalence and ordering. ■ 4.NF.A.1 Explain why a fraction a/b is equivalent to a fraction (n × a)/(n × b) by using visual fraction models, with attention to how the number and size of the parts differ even though the two fractions themselves are the same size. Use this principle to recognize and generate equivalent fractions. 	Topic B: Fraction Equivalence Using Multiplication and Division Objectives/Learning Targets: Lesson 7-8: / can use the area model and multiplication to show the equivalence of two fractions. (4.NF.A.1) Lesson 9-10: / can use the area model and division to show the equivalence of two fractions. (4.NF.A.1) Lesson 11: / can explain fraction equivalence using a tape diagram and the number line, and	Eureka Parent Newsletter- Topic B Optional Quiz- Topic B Pacing Considerations: Combine lessons 7 and 8. Suggestions for combining: Lessons 7 and 8 Fluency: Count by Equivalent Fractions Draw Equivalent Fractions Draw Equivalent Fractions Application Problem Lesson 7	Additional instructional resources for enrichment/remediation: Remediation Guide Ready teacher-toolbox aligned lessons • Understand Equivalent Fractions Zearn lessons- Mission 5 Lesson 7: Same Area Lesson 9: Same Fraction, Fewer Parts Lesson 10: Same Fraction, Fewer Parts Lesson 11: Fraction Line Up embarc.online- Module 5



Quarter: 3

TN STATE STANDARDS	CONTENT	INSTRUCTIONAL	L SUPPORT & RESOURCES
	relate that to the use of multiplication and division. (4.NF.A.1)	 Concept Development Teach Lesson 7, Problem 1 with Lesson 8, Problem 1 Teach Lesson 7, Problem 2 with Lesson 8, Problem 3 Teach Lesson 7, Problem 3 with Lesson 8, Problem 2 Problem Set Lesson 7, Problem 3 Lesson 8, Problem 4 and 5 Debrief/Exit Ticket Lesson 7 and 8 	Videos: • Making equivalent fractions using multiplication • Recognize equivalent fractions using area models I-Ready Lessons • Equivalent Fractions Task Bank: Explaining Fraction Equivalence with Pictures Fractions and Rectangles
 Domain: Number and Operations - Fractions Cluster: Extend understanding of fraction equivalence and ordering. 4.NF.A.2 Compare two fractions with different numerators e.g., by creating common denominators or numerators, or by comparing to a benchmark fraction such as 1/2. Recognize that comparisons are valid only when the two fractions refer to the same whole. Record the results of comparisons with symbols >, =, or <, and justify the conclusions, e.g., by using a visual fraction model. 	Topic C: Fraction Comparison Objectives/Learning Targets: Lesson 12-13: <i>I can</i> reason using benchmarks to compare two fractions on the number line. (4.NF.A.2) Lesson 14-15: <i>I can</i> find common units or number of units to compare two fractions. (4.NF.A.2)	Eureka Parent Newsletter- Topic C Optional Quiz- Topic C Pacing Considerations: No pacing considerations at this time.	Additional instructional resources for enrichment/remediation: Remediation Guide Ready teacher-toolbox aligned lessons Compare Fractions Zearn Lessons -Mission 5 Lesson 12: benchmark Bonanza Lesson 13: Benchmark to Compare Lesson 14: Make the Same to Compare Lesson 15: United Units embarc.online- Module 5 Videos:



Quarter: 3

Grade: 4

		INSTRUCTIONA	
TN STATE STANDARDS	CONTENT	INSTRUCTIONA	L SUPPORT & RESOURCES
			<u>Compare fractions to a benchmark</u> <u>of one half using number lines</u>
			Task Bank:
			Listing fractions in increasing size
			Using Benchmarks to Compare Fractions
Domain: Number and Operations- Fractions	Topic D: Fraction Addition and Subtraction	Eureka Parent Newsletter- Topic D	Additional instructional resources for
Cluster: Build fractions from unit fractions by applying and extending previous understandings	•	Optional Quiz- Topic D	enrichment/remediation:
of whole numbers.	Objectives/Learning Targets:	Pacing Considerations:	Remediation Guide
	Lesson 16: I can use visual models to add and	Omit lessons 20 and 21	
Domain: Number and Operations - Fractions	subtract two fractions with the same units.		Ready teacher-toolbox aligned lessons
Cluster (4.NF.B): Build fractions from unit fractions by applying and extending previous	(4.NF.B.3a)		Lesson 17 - Add and Subtract Mixed
understandings of operations on whole			<u>Numbers</u>
numbers.	Lesson 17: I can use visual models to add and		
numbers.	subtract two fractions with the same units,		Zearn Lessons - Mission 5
4.NF.B.3 : Understand a fraction a/b with a > 1	including subtracting from one whole.		Lesson 16: Like Units Make It Work
as a sum of fractions 1/b.	(4.NF.B.3a)		Lesson 17: Whole Use Lesson 18: Three's Company
	Lesson 18: I can add and subtract two fractions		Lesson 19: Word Play
4.NF.B.3a: Understand addition and	with the same units. (4.NF.B.3a)		Lesson 20: Like Units, Like Sum
subtraction of fractions as joining and			Lesson 21: Sum it Up
separating parts referring to the same whole.	Lesson 19: I can solve word problems involving		embarc.online- Module 5
■ 4.NF.B.3.d: Solve contextual word problems	addition and subtraction of fractions.		
4.NP.B.S.d. Solve contextual word problems involving addition and subtraction of fractions	(4.NF.B.3d)		I-Ready Lessons
referring to the same whole and having like			 Add and Subtract Fractions
denominators, e.g., by using visual fraction	Lesson 20-21: I can use visual models to add		Understand Fraction Multiplication
models and equations to represent the problem	two fractions with related units using the		
	denominators 2,3,4,5,6,8,10, and 12.		Videos:
	(4.NF.A.1, 4.NF.B.3a, 5.NF.A.1) <mark>(can be</mark>		Add fractions by joining parts
	omitted)		Decompose mixed numbers into a sum
			of fractions using tape diagrams
			Add and subtract fractions and mixed

SCS 2019-2020 Revised 4/6/2019 8 of 14



Quarter: 3

TN STATE STANDARDS	CONTENT		SUPPORT & RESOURCES
 equivalence and ordering 4.NF.A.2 Compare two fractions with different numerators e.g., by creating common denominators or numerators, or by comparing to a benchmark fraction such as 1/2. Recognize that comparisons are valid only when the two fractions refer to the same whole. Record the results of comparisons with symbols >, =, or <, and justify the conclusions, e.g., by using a visual fraction model. Domain: Number and Operations - Fractions Cluster (4.NF.B): Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers. 4.NF.B.3: Understand a fraction a/b with a > 1 as a sum of fractions 1/b. 	Topic E: Extending Fraction Equivalence to Fractions Greater Than 1 Objectives/Learning Targets: Lesson 22: I can add a fraction less than 1 to, or subtract a fraction less than 1 from, a whole number using decomposition and visual models. (4.NF.B.3a) Lesson 23: I can add and multiply unit fractions to build fractions greater than 1 using visual models. (4.NF.B.4b) Lesson 24-25: I can decompose and compose fractions greater than 1 to express them in various forms. (4.NF.B.3bc) Lesson 26: I can compare fractions greater than 1 by reasoning using benchmark fractions. (4.NF.A.2) Lesson 27: I can compare fractions greater	Eureka Parent Newsletter- Topic E Optional Quiz- Topic E Pacing Considerations: Combine Lessons 24 and 25 Suggestions for combining: Lessons 24 and 25 Fluency: Add and Subtract Fractions Count by Equivalent Fractions Application Problem Lesson 24 Concept Development . Teach Lesson 24, Problem 1 with Lesson 25, Problem 1 . Teach Lesson 24, Problem 2 with Lesson 25, Problem 2	SUPPORT & RESOURCES numbers with like denominators using number lines Task Bank: • Plastic Building Blocks • Extending Multiplication From Whole Numbers to Fractions • Comparing Sums of Unit Fractions Additional instructional resources for enrichment/remediation: Remediation Guide Ready teacher-toolbox aligned lessons • Lesson17 - Add and Subtract Mixed Numbers Zearn Lessons - Mission 5 Lesson 22: Fraction To/Fraction From Lesson 23: Fraction Build Up Lesson 24: Beyond the Whole Lesson 25: Form Follows Function Lesson 26: Benchmark Boogie Lesson 27: We Like Units embarc.online- Module 5 Videos: • Compare fractions to a benchmark of one half using number lines
4.NF.B.3a: Understand addition and subtraction of fractions as joining and separating parts referring to the same whole.	Lesson 27: <i>I can</i> compare fractions greater than 1 by creating common numerators or denominators. (4.NF.A.2) Lesson 28: <i>I can</i> solve word problems with line plots. (4.MD.B.4, 4.NF.A.2, 4.NF.B.3d)	Problem Set Lesson 24 #2, #3 Lesson 25 #3 Additional problems can be completed if time allows	



Quarter: 3

TN STATE STANDARDS	CONTENT	INSTRUCTIONAL	_ SUPPORT & RESOURCES
 than one way, recording each decomposition by an equation. Justify decompositions, e.g., by using a visual fraction model. Examples: 3/8 = 1/8 + 1/8 + 1/8; 3/8 = 1/8 + 2/8; 2 1/8 = 1 + 1 + 1/8 = 8/8 + 8/8 + 1/8. Justify decompositions by using a visual fraction model. 4.NF.B.3c Add and subtract mixed numbers with like denominators, e.g., by replacing each mixed number with an equivalent fraction, and/or by using properties of operations and the relationship between addition and subtraction 4.NF.B.3.d: Solve contextual word problems involving addition and subtraction of fractions referring to the same whole and having like denominators, e.g., by using visual fraction models and equations to represent the problem Domain: Measurement and Data Cluster 4.MD.B Represent and interpret data. 4.MD.B.4_Make a line plot to display a data set of measurements in fractions of a unit (1/2, 1/4, 1/8). Solve problems involving addition and subtraction of fractions by using information presented in line plots. 		Exit Ticket Lessons 24 and 25	I-Ready Lessons Add and Subtract Fractions Understand Adding and Subtracting Fractions Task Bank Cynthia's Perfect Punch Comparing two different pizzas
Domain: Number and Operations - Fractions Cluster (4.NF.B): Build fractions from unit fractions by applying and extending previous	Fractions by Decomposition	<u>Eureka Parent Newsletter-Topic F</u> Optional Quiz- Topic F	Additional instructional resources for enrichment/remediation:
understandings of operations on whole numbers.	Objectives/Learning Targets:		Remediation Guide
4.NF.B.3c Add and subtract mixed numbers	Lesson 29: I can estimate sums and differences using benchmark numbers. (4.NF.B.3c. 5.NF.A.2) (can be omitted)	Pacing Considerations: Omit lesson 29	Lesson17 - Add and Subtract Mixed Numbers



Quarter: 3

TN STATE STANDARDS	CONTENT	INSTRUCTIONA	L SUPPORT & RESOURCES
with like denominators, e.g., by replacing each mixed number with an equivalent fraction, and/or by using properties of operations and the relationship between addition and subtraction	Lesson 30: I can I can add a mixed number and a fraction. (4.NF.B.3c) Lesson 31: I can add mixed numbers. (4.NF.B.3c) Lesson 32: I can subtract a fraction from a mixed number. (4.NF.B.3c) Lesson 33: <i>I can</i> subtract a mixed number from a mixed number. (4.NF.B.3c) Lesson 34: <i>I can</i> subtract mixed numbers. (4.NF.B.3c)		Zearn Lessons -Mission 5 Lesson 29: Estimation Station Lesson 30: Sum Mixed, Sum Not Lesson 31: Mixed Sums Lesson 32: Count Back to Subtract Lesson 33: Break Down to Subtract embarc.online- Module 5 Videos: • Add mixed numbers using an area model (Lesson 1 of 2) I-Ready Lessons: • Understanding Adding and Subtracting Fractions Task Bank:
 Domain: Number and Operations - Fractions Cluster (4.NF.B): Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers. 4.NF.B.4.a Understand a fraction a/b as a multiple of 1/b. For example, use a visual 	Topic G: Repeated Addition of Fractions as Multiplication Objectives/Learning Targets: Lesson 35-36: I can represent the multiplication of n times a/b as (n x a)/b using the associative property and visual models. (4.NF.B.4abc)	Eureka Parent Newsletter- Topic G Optional Quiz: Topic G Pacing Considerations: Omit lesson 41	Peaches Plastic Building Blocks Additional instructional resources for enrichment/remediation: <u>Remediation Guide</u> <u>Ready teacher-toolbox aligned lessons</u> <u>Lesson 18 - Understand Fraction Multiplication </u>
 fraction model to represent 5/4 as the product 5 × (1/4), recording the conclusion by the equation 5/4 = 5 × (1/4). 4.NF.B.4.b Understand a multiple of a/b as a multiple of 1/b, and use this understanding to multiply a fraction by a whole number. For 	Lesson 37-38: I can find the product of a whole number and a mixed number using the distributive property. (4.NF.B.4bc) Lesson 39: I can solve multiplicative comparison word problems involving fractions.		Lesson 19 - Multiply Fractions Lesson 27 - Line Plots Zearn Lessons -Mission 5 Lesson 35: Associate How You Like Lesson 36: Fast Times Lesson 37: Multiply Mix



Quarter: 3

TN STATE STANDARDS	CONTENT	INSTRUCTIONAL	L SUPPORT & RESOURCES
 example, use a visual fraction model to express 3 × (2/5) as 6 × (1/5), recognizing this product as 6/5. (In general, n × (a/b) = (n × a)/b.) 4.NF.B.4.c Solve word problems involving multiplication of a fraction by a whole number, e.g., by using visual fraction models and equations to represent the problem. For example, if each person at a party will eat 3/8 of a pound of roast beef, and there will be 5 people at the party, how many pounds of roast beef will be needed? Between what two whole numbers does your answer lie? 	(4.NF.B.4c) Lesson 40: I can solve word problems involving the multiplication of a whole number and a fraction including those involving line plots. (4.NF.B.4c, 4.MD.A.2, 4.MD.B.4,)		Lesson 39: Prepare to Compare Lesson 40: Plotting Along embarc.online- Module 5 Videos: • Represent fractions as the sum of unit fractions using pictures • Multiply fractions by whole numbers: using models • Represent fractions as the sum of unit fractions using pictures Task Bank: Sugar in six cans of soda
Domain: Order and Operations Cluster: Generate and Analyze Patterns ■ 4.OA.C.5: Generate a number or shape pattern that follows a given rule. Identify apparent features of the pattern that were not explicit in the rule itself. For example, given the rule "Add 3" and the starting number 1, generate terms in the resulting sequence and observe that the terms appear to alternate between odd and even numbers. Explain informally why the numbers will continue to alternate in this way.	Topic H: Exploring a Fraction Pattern Objectives/Learning Targets: Lesson 41: <i>I can</i> find and use a pattern to calculate the sum of all fractional parts between 0 and 1. Share and critique peer strategies. (4.OA.C.5) End of Module Assessment	Eureka Parent Newsletter- Topic H No optional quiz available Pacing Considerations: No pacing considerations at this time	Additional instructional resources for enrichment/remediation: <u>Remediation Guide</u> <u>Ready teacher-toolbox aligned lessons</u> • <u>Lesson 8 - Number and Shape</u> <u>Patterns</u> <u>embarc.online- Module 5</u> <u>Videos:</u> • <u>Find the rule for a function machine</u> <u>using a vertical table</u> I-Ready Lessons • Using a Function Table • Number and Shape Patterns • Applying a Function Rule to Complete a Table Task Bank:



Quarter: 3

TN STATE STANDARDS	CONTENT	INSTRUCTION	IAL SUPPORT & RESOURCES
			Double Plus One
		cimal Fractions	
Domain: Number and Operations - Fractions Cluster: Understand decimal notation for fractions, and compare decimal fractions. 4.NF.C.6 Use decimal notation for fractions with denominators 10 or 100. For example, rewrite 0.62 as 62/100; describe a length as 0.62 meters; locate 0.62 on a number line diagram.	 Topic A: Exploration of Tenths and Hundredths Essential Questions What is a decimal and how would you use it? Why would you need to compare decimals? What are some ways to represent decimals? Objectives/Learning Targets Lesson 1: <i>I can</i> use metric measurement to model the decomposition of one whole into tenths. (4. NF.C.6) Lesson 2: <i>I can</i> use metric measurement and area models to represent tenths as fractions greater than 1 and decimal numbers. (4. NF.C.6) Lesson 3: <i>I can</i> represent mixed numbers with units of tens, ones, and tenths with number disks, on the number line, and in expanded form. (4. NF.C.6)	Eureka Parent Newsletter Topic A Optional Quiz Topic A Pacing Considerations: No pacing considerations at this time.	Additional instructional resources for enrichment/remediation: Remediation Guide Ready teacher-toolbox aligned lessons • Lesson 21: Relate Fractions and Decimals Zearn Lessons -Mission 6 • Lesson 1: On Point • Lesson 2: Shaded Fractions, Shaded Decimals • Lesson 3: Equivalence Extravaganza embarc.online- Module 6 Videos: Convert decimals to fractions to the hundredths place using visual aids I-Ready Lessons: Renaming Fractions and Decimals



Quarter: 3

TN STATE STANDARDS	CONTENT	INSTRUCTIONAL SUPPORT & RESOURCES





RESOURCE TOOLKIT

The Resource Toolbox provides additional support for comprehension and mastery of grade-level skills and concepts. These resources were chosen as an accompaniment to modules taught within this quarter. Incorporated materials may assist educators with grouping, enrichment, remediation, and differentiation.

Textbook Resources	TN State Standards/CCSS	Videos
Great Minds' Eureka Math	TN Math Standards	Scholastic Math Study
	Achieve the Core	Jams
		LearnZillion
		Khan Academy
Interactive Manipulatives	_	Additional Sites
http://www.eduplace.com/		http://www.k-5mathteachingresources.com/5th-grade-number-
Illuminations Resources for Teaching Math		activities.html
Interactive Sites for Educators Math Playground: Common Core Standards		Edutoolbox Resources
PARCC Games		Illustrated Mathematics Dictionary for Kids
Virtual Manipulatives		Parent Roadmap: Supporting Your Child in Grade 5
IXL MATH		Mathematics
Thinking Blocks: Computer and Ipad based programs		
		Other:
		Use this guide as you prepare to teach a module for additional
		guidance in planning, pacing, and suggestions for omissions.
		Pacing and Preparation Guide (Omissions)



SHELBY COUNTY SCHOOLS 2018-2019 MATHEMATICS INSTRUCTIONAL CALENDAR – GRADE 4



			January	2020		
Module	Monday	Tuesday	Wednesday	Thursday	Friday	Notes:
			1	2	3	Flex Day Options Include:
			Winter Break			Standard - Suggested standard(s) to review for the day (*-denotes a Power Standard)
Madala F						Pacing – Use this time to adjust
Module 5	6 <i>Quarter 3 begins</i> Topic A <u>Combine lessons</u> <u>1 and 2</u>	7 Topic A Lesson 3	8 Topic A Lesson 5	9 Topic A Lesson 6	10 Flex Day Options 4.NF.B.4a 4.NF.B3b Pacing Other	instruction to stay on pace. <i>Other-</i> This includes assessments, review, re-teaching, etc.
	13 Topic B <u>Combine lessons</u> <u>7 and 8</u>	14 Topic B Lesson 9	15 Topic B Lesson 10	16 Topic B Lesson 11	17 ½ day students Flex Day Options *4.NF.A.1 4.NF.B.4a Pacing Other	Optional Quizzes- Module 5 <u>Topic A</u> <u>Topic B</u> <u>Topic C</u> <u>Topic D</u>
	20 Martin Luther King Jr. Day (Out)	21 Topic C Lesson 12	22 Topic C Lesson 13	23 Topic C Lesson 14	24 Topic C Lesson 15	(Optional quizzes should take no longer than 15 minutes)
	27 Topic D Lesson 16	28 Topic D Lesson 17	29 Topic D Lesson 18	30 Flex Day (Choice)	31 Flex Day Options 4.NF.3ad Pacing Other	





	February 2020					
Module	Monday	Tuesday	Wednesday	Thursday	Friday	Notes:
Module 5 Omit lessons 20 and 21	3 Topic D Lesson 19	4 Mid Module Assessment	5 Topic E Lesson 22	6 Topic E Lesson 23	7 Flex Day Options 4.NF,3ad Pacing Other	Flex Day Options Include: Standard- Suggested standard(s) to review for the day (*-denotes a Power Standard)
	10 Topic E <u>Combine lessons</u> 24 and 25	11 Topic E Lesson 26	12 Topic E Lesson 27	13 Topic E Lesson 28 Parent Teacher Conferences	14 1/2 day students Flex Day Options 4.NF.B.3 *4.NF.A.2 Pacing Other	 <i>Pacing</i> – Use this time to adjust instruction to stay on pace. <i>Other-</i> This includes assessments, review, re-teaching, etc.
Omit Lesson 29	17 PD FLEX DAY President's Day	18 Topic F Lesson 30	19 Topic F Lesson 31	20 Topic F Lesson 32	21 Topic F Lesson 33	Optional Quizzes- Module 5 <u>Topic E</u> <u>Topic F</u> (Optional quizzes should take no longer than 15 minutes)
	24 Topic F Lesson 34	25 Topic F Lesson 35	26 Topic F Lesson 36	27 Topic F Lesson 37	28 Flex Day Options 4.NF.B.3c Pacing Other	



SHELBY COUNTY SCHOOLS 2018-2019 MATHEMATICS INSTRUCTIONAL CALENDAR – GRADE 4



			March 2	2020	<u>^</u>	
Module	Monday	Tuesday	Wednesday	Thursday	Friday	Notes:
	2 Topic G Lesson 38	3 Topic G Lesson 39	4 Topic G Lesson 40	5 <i>Topic H</i> Lesson 41	6 Flex Day Options 4.NF.B.4 *4.OA.C.5 Pacing Other	Flex Day Options Include: Standard- Suggested standard(s) to review for the day (*-denotes a Power Standard) Pacing – Use this time to adjust
Мо	odule 6 9 End of Module Assessment	10 Topic A Lesson 1	11 Topic A Lesson 2	12 Topic A Lesson 3	13 End of Quarter 3 Flex Day Options 4.NF.C.6 Pacing Other	instruction to stay on pace. <i>Other</i> - This includes assessments, review, re-teaching, etc. Optional Quizzes- Module 5
	16	17	18	19	20	<u>Topic G</u> Optional Quizzes- Module 6
		Topic A				
	Quarter 4 begins	24	25	26	27	(Optional quizzes should take no longer than 15 minutes)
	30	31	1	2	3	



SHELBY COUNTY SCHOOLS 2018-2019 MATHEMATICS INSTRUCTIONAL CALENDAR – GRADE 4



