

Grade 4

Quarter 3



Mathematics Grade 4 – Year at a Glance 2018 - 2019



Q1 Q2 **2018 - 20.19** Q3 Q4

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Module 1	Module 2	Module 3	Module 4	Module 5	Module 6	Module 7		Module 7 (<u>con't</u>)
Aug. 6 – Sept. 7	Sept. 11- 18	Sept. 18 – Nov.15	Nov. 16 – Dec. 17	Jan. 7 – Mar. 1	Mar. 4 – Apr. 9	Apr.10-18 Lessons 1-8 only		Apr. 22 - May23
Place Value, Rounding and Algorithms for Addition and Subtraction	Unit Conversion and Problem Solving with Metric Measurements	Multi-Digit	Angle Measure and Plane Figures	Fraction Equivalence, Order and Operations	Decimal Fractions	Exploring Measurement with Multiplication	ng Window	Material covered after April 9 th is an extension of 4 th grade standards or review of previously taught skills
4.OA.A.3	4.MD.A.1	4.0A.A.1	4.MD.C.5	4.NF.A.1	4.NF.C.5	4.OA.A.1	Testin	4.OA.A.1
4.NBT.A.1	4.MD.A.2	4.OA.A.2	4.MD.C.6	4.NF.A.2	4.NF.C.6	4.OA.A.2	, Te	4.OA.A.2
4.NBT.A.2		4.OA.A.3	4.MD.C.7	4.NF.A.3	4.NF.C.7	4.OA.A.3	eady	4.OA.A.3
4.NBT.A.3		4.OA.B.4	4.G.A.1	4.NF.A.4	4.MD.A.2	4.MD.A.1	TN Re	
4.NBT.B.4		4.NBT.B.5	4.G.A.2	4.OA.C.5		4.MD.A.2	F	*Additional
		4.NBT.B.6	4.G.A.3	4.MD.B.4				standards – see
		4.MD.A.3						curriculum map

Key:

Major Content
Supporting Content

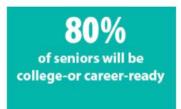
SCS 2018/2019 Revised 9/5/2018 1 of 20

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?



90% of students will graduate on time 100%
of college-or career-ready
graduates enroll in
post-secondary opportunities

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

Focus

Coherence



SCS 2018/2019 Revised 9/5/2018 2 of 20



Quarter 3 Grade 4

The **Standards for Mathematical Practice** describe varieties of expertise, habits of minds and productive dispositions that mathematics educators at all levels should seek to develop in their students. These practices rest on important National Council of Teachers of Mathematics (NCTM) "processes and proficiencies" with longstanding importance in mathematics education. Throughout the year, students should continue to develop proficiency with the eight Standards for Mathematical Practice. The following are the eight Standards for Mathematical Practice:

- 1. Make sense of problems and persevere in solving them.
- 2. Reason abstractly and quantitatively.
- 3. Construct viable arguments and critique the reasoning of them.
- 4. Model with mathematics.
- 5. Use appropriate tools strategically.
- 6. Attend to precision.
- 7. Look for and make use of structure.
- 8. Look for and express regularity in repeated reasoning.

This curriculum map is designed to help teachers make effective decisions about what mathematical content to teach so that ultimately our students can reach Destination 2025. 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.

	Tennessee Mathematics Content Standards	
	Standards for Mathematical Practice	
	Literacy Skills for Mathematical Proficency	
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Grade 4

Structure of the Standards

Structure of the TN State Standards include:

Quarter 3

- Content Standards Statements of what a student should know, understand, and be able to do.
- Clusters Groups of related standards. Cluster headings may be considered as the big idea(s) that the group of standards they represent are addressing. They are therefore useful as a quick summary of the progression of ideas that the standards in a domain are covering and can help teachers to determine the focus of the standards they are teaching.
- **Domains** A large category of mathematics that the clusters and their respective content standards delineate and address. For example, Number and Operations Fractions is a domain under which there are a number of clusters (the big ideas that will be addressed) along with their respective content standards, which give the specifics of what the student should know, understand, and be able to do when working with fractions.
- Conceptual Categories The content standards, clusters, and domains in the 9th-12th grades are further organized under conceptual categories. These are very broad categories of mathematical thought and lend themselves to the organization of high school course work. For example, Algebra is a conceptual category in the high school standards under which are domains such as Seeing Structure in Expressions, Creating Equations, Arithmetic with Polynomials and Rational Expressions, etc.



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.



Quarter 3 Grade 4

Grade 4 Quarter 3 Overview

Module 5: Fraction Equivalence, Ordering and Operations

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
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



Curriculum and Instruction – Mathematics

Grade 4

TN STATE STANDARDS	CONTENT	INSTRUCTIONAL SUPPORT	VOCABULARY/FLUENCY		
Module 5:					
			W		
Domain: Number and Operations- Fractions Cluster: Build fractions from unit fractions by	Module 5: Fraction Equivalence, Ordering and Operations	Eureka Parent Newsletter- Topic A Optional Quiz-Topic A	Vocabulary		
applying and extending previous	and Operations	Optional Guiz-Topic A	=, <, or, >, compose, decompose, equivalent		
understandings of operations on whole	Essential Questions	Pacing considerations:	Fractions, fraction, fractional unit, multiple,		
numbers.	How can you show parts of a region?	Study the lessons and sequence of problems	Non-unit fractions, unit fractions, unit interval,		
4.NF.B.3b Understand a fraction a/b with a > 1	2. How can you estimate parts?3. How can you find 2 fractions that name	within lessons 1,2 and 3 and then consolidate	Whole		
as a sum of fractions 1/b.	the same part of a whole?	the 3 lessons. Omit lesson 4.			
as a sum or massishe man	4. How do you write a fraction in simplest	A Little and the classification of the	Terminology		
b. Decompose a fraction into a sum of	form?	Additional instructional resources for enrichment/remediation:	Benchmark, common denominator, Fraction		
fractions with the same denominator in more	5. How can you use benchmark fractions to	eninchinemoremediation.			
than one way, recording each decomposition by an equation. Justify decompositions, e.g.,	compare fractions? 6. How do you write a good mathematical	Remediation Guide	Greater than 1, line plot, mixed number,		
by using a visual fraction model. Examples:	explanation?		numerator		
3/8 = 1/8 + 1/8 + 1/8; 3/8 = 1/8 + 2/8; 2 1/8 = 1	7. How can you add and subtract fractions	Ready teacher-toolbox aligned lessons			
+ 1 + 1/8 = 8/8 + 8/8 + 1/8.	with like denominators? 8. What operation is needed to solve a	Understand Fraction Addition and Subtraction	Fluency Practice		
4.NF.B.4a Apply and extend previous	8. What operation is needed to solve a problem with fractions?	did Subtraction	Lesson 1:		
understandings of multiplication to multiply a		Zearn Lessons	Read Tape Diagrams		
fraction by a whole number.	Topic A: Decomposition and Fraction	Lesson 1: Decompose. Compose. Repeat.	Addition of Fractions in Unit Form 3		
a Understand a fraction alls as a multiple of	Equivalence	Lesson 2: Decompose and Group			
a. Understand a fraction a/b as a multiple of 1/b. For example, use a visual fraction model	Laccon Objectives/Learning Targets	Lesson 3: Decompose and Multiply	Lesson 2:		
to represent $5/4$ as the product $5 \times (1/4)$,	Lesson Objectives/Learning Targets:	Lesson 4: Different Decomposition Lesson 5: Same Share	Read Tape Diagrams		
recording the conclusion by the equation $5/4 =$	1-2: <i>I can</i> decompose fractions as a sum of unit fractions using tape diagrams. (4.NF.B.3b)	Lesson 6: Area Model- Breakdown!	Break Apart Fractions		
5 × (1/4).	and additional damage and granter (Title 19189)		Disakt part i rusions		
	Lesson 3: <i>I can</i> decompose non-unit fractions	embarc.online- Module 5	Losson 2.		
	and represent them as a whole number times	Videos:	Lesson 3:		
	a unit fraction using tape diagrams.	 Multiply fractions by fractions: 	Multiply Mentally		
	(4.NF.B.4a)	finding a part of a part	Repeated Addition as Multiplication Add Fractions		
		Write a fraction to describe a set	Aud I ractions		
	Lesson 4: <i>I can</i> decompose fractions into sums of smaller unit fractions using tape	Decompose a fraction into a sum fractions			
	sums of smaller unit fractions using tape	of fractions	Lesson 4:		

SCS 2018/2019 Revised 9/5/2018 7 of 20



TN STATE STANDARDS	CONTENT	INSTRUCTIONAL SUPPORT	VOCABULARY/FLUENCY
	diagrams. (4.NF.B.3b) Lesson 5: <i>I can</i> decompose unit fractions using area models to show equivalence. (4.NF.B.4a) Lesson 6: <i>I can</i> decompose fractions using area models to show equivalence. (4.NF.B.4a)	I-Ready Lessons:	Break Apart Fractions Count by Equivalent Fractions Lesson 5: Count by Equivalent Fractions Add Fractions Break Apart the Unit Fraction Lesson 6: Sprint: Multiply Whole Numbers Times Fractions Find Equivalent Fractions
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: <i>I can</i> use the area model and multiplication to show the equivalence of two fractions. (4.NF.A.1) Lesson 9-10: <i>I can</i> use the area model and division to show the equivalence of two fractions. (4.NF.A.1) Lesson 11: <i>I can</i> explain fraction equivalence using a tape diagram and the number line, and relate that to the use of multiplication and division. (4.NF.A.1)	Eureka Parent Newsletter- Topic B Optional Quiz- Topic B Pacing Considerations: No pacing considerations at this time. 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 8: Multiply for Equality Lesson9: Same Fraction, Fewer Parts Lesson 10: Same Fraction, Fewer Parts Lesson 11: Fraction Line Up!	Fluency Practice: Lesson 7: Break Apart Fractions Count by Equivalent Fractions, Draw Equivalent Fractions Lesson 8: Break Apart Fractions Count by Equivalent Fractions Draw Equivalent Fractions Lesson 9: Add and Subtract Find Equivalent Fractions Draw Equivalent Fractions Lesson 10: Add and Subtract



Quarter 3 Grade 4

TN STATE STANDARDS	CONTENT	INSTRUCTIONAL SUPPORT	VOCABULARY/FLUENCY
IN STATE STANDARDS	CONTENT	embarc.online- Module 5 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	Find Equivalent Fractions Draw Equivalent Fractions Lesson 11: Find the Quotient and Remainder Find Equivalent Fractions Draw Equivalent Fractions
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	Fluency Practice: Lesson 12: Add and Subtract Find Equivalent Fractions Construct a Number Line with Fractions Lesson 13: Divide 3 Different Ways Count by Equivalent Fractions, Plot Fractions on a Number Line Lesson 14: Add and Subtract Compare Fractions Construct a Number Line with Fractions Lesson 15: Count by Equivalent Fraction Find Equivalent Fractions Compare Fractions

SCS 2018/2019 Revised 9/5/2018 9 of 20



Curriculum and Instruction – Mathematics

TN STATE STANDARDS	CONTENT	INSTRUCTIONAL SUPPORT	VOCABULARY/FLUENCY	
		Videos: • Compare fractions to a benchmark of one half using number lines Task Bank: Listing fractions in increasing size Using Benchmarks to Compare Fractions		
Domain: Number and Operations- Fractions Cluster: Build fractions from unit fractions by applying and extending previous understandings of whole numbers. 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	Topic D: Fraction Addition and Subtraction Objectives/Learning Targets: Lesson 16: <i>I can</i> use visual models to add and subtract two fractions with the same units. (4.NF.B.3ad) Lesson 17: <i>I can</i> use visual models to add and subtract two fractions with the same units, including subtracting from one whole. (4.NF.B.3ad)	Eureka Parent Newsletter-Topic D Optional Quiz-Topic D Pacing Considerations: Omit lesson 20 and 21 Additional instructional resources for enrichment/remediation: Remediation Guide	Fluency Practice: Lesson 16: Count by Equivalent Fractions Compare Fractions Lesson 17: Count by Equivalent Fractions Take out the Whole Number Draw Tape Diagrams	
 4.NF.B.3: Understand a fraction a/b with a > 1 as a sum of fractions 1/b. 4.NF.B.3a: Understand addition and subtraction of fractions as joining and separating parts referring to the same whole. 	Lesson 18: <i>I can</i> add and subtract two fractions with the same units, (4.NF.B.3ad) Lesson 19: <i>I can</i> solve word problems	 Ready teacher-toolbox aligned lessons Lesson 17 - Add and Subtract Mixed Numbers 	Lesson 18: Count by Equivalent Fractions Subtract Fractions Lesson 19:	
■ 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	involving addition and subtraction of fractions. (4.NF.B.3ad) Lesson 20-21: <i>I can</i> use visual models to add two fractions with related units using the denominators 2,3,4,5,6,8,10, and 12. (4.NF.B.3ad)	Zearn Lessons -Mission 5 Lesson 16: Like Units Make It Work Lesson 17: Whole Use Lesson 18: Three's Company Lesson 19: Word Play Lesson 20: Like Units, Like Sum Lesson 21: Sum it Up	Count by Equivalent Fractions Add and Subtract Fractions Lesson 20: Count by Equivalent Fractions Add Fractions,	



Curriculum and Instruction – Mathematics

Grade 4

TN STATE STANDARDS	CONTENT	INSTRUCTIONAL SUPPORT	VOCABULARY/FLUENCY
	Mid Module Assessment	embarc.online- Module 5 I-Ready Lessons Add and Subtract Fractions Understand Fraction Multiplication	Subtract Fractions Lesson 21: Sprint: Subtract Fractions Add Fractions
		Videos: Add fractions by joining parts Decompose mixed numbers into a sum of fractions using tape diagrams Add and subtract fractions and mixed numbers with like denominators using number lines Task Bank: Plastic Building Blocks Extending Multiplication From Whole Numbers to Fractions Comparing Sums of Unit Fractions	
Domain: Number and Operations - Fractions Cluster: Extend understanding of fraction	Topic E: Extending Fraction Equivalence to Fractions Greater Than 1	Eureka Parent Newsletter- Topic E Optional Quiz- Topic E	Fluency Practice:
equivalence and ordering	Objectives/Learning Targets :	Pacing Considerations:	Lesson 22: Sprint: Add Fractions
■ 4.NF.A.2 Compare two fractions with different numerators e.g., by creating	Lesson 22: <i>I can</i> add a fraction less than 1 to, or subtract a fraction less than 1 from, a whole	No pacing considerations at this time.	Count by Equivalent Fractions

SCS 2018/2019 Revised 9/5/2018

■Major Content

➤ Supporting Content



Curriculum and moduction – wathematics

TN STATE STANDARDS CONTENT INSTRUCTIONAL SUPPORT VOCABULARY/FLUENCY

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.

Quarter 3

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.
- 4.NF.B.3a: Understand addition and subtraction of fractions as joining and separating parts referring to the same whole.
- 4.NF.B.3b: . Decompose a fraction into a sum of fractions with the same denominator in more 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

number using decomposition and visual models. (4.NF.B.3)

Lesson 23: *I can* add and multiply unit fractions to build fractions greater than 1 using visual models. **(4.NF.B.3)**

Lesson 24-25: *I can* decompose and compose fractions greater than 1 to express them in various forms. (4.NF.B.3)

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 than 1 by creating common numerators or denominators. **(4.NF.A.2)**

Lesson 28: *I can* solve word problems with line plots. (4.MD.B.4)

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
- Add mixed numbers using an area model (Lesson 1 of 2)
- Add and subtract fractions and mixed numbers with like denominators using number lines

I-Ready Lessons

- Add and Subtract Fractions
- Understand Adding and Subtracting

Lesson 23:

Grade 4

Add and Subtract Count by Equivalent Fractions Add and Subtract Fractions Subtract from a whole

Lesson 24:

Add and Subtract Count by Equivalent Fractions Add and Subtract Fractions Multiply Fractions on a Number Line

Lesson 25:

How Many Ones?, Add and Subtract Fractions Change Fractions to Mixed Numbers

Lesson 26:

Compare Fractions Greater than 1 by Reasoning Using Benchmark Fractions

Lesson 27:

Add and Subtract Fractions\
Change Fractions to Mixed Numbers
Change Mixed Numbers to Fractions

Lesson 28: Change Mixed Numbers to Fractions, Compare Fractions



TN STATE STANDARDS	CONTENT	INSTRUCTIONAL SUPPORT	VOCABULARY/FLUENCY
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.		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 understandings of operations on whole numbers. 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	Topic F: Addition and Subtraction of Fractions by Decomposition Objectives/Learning Targets: Lesson 29: I can estimate sums and differences using benchmark numbers. (4.NF.B.3c) 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	Eureka Parent Newsletter-Topic F Optional Quiz- Topic F Pacing Considerations: Omit lesson 29 Additional instructional resources for enrichment/remediation: Remediation Guide Ready teacher-toolbox aligned lessons • Lesson17 - Add and Subtract Mixed Numbers	Fluency Practice: Lesson 29: Count by Equivalent Fractions Change Fractions to Mixed Numbers Lesson 30: Sprint: Change Fractions to Mixed Numbers, Compare Fractions Lesson 31: Sprint: Change Fractions to Mixed Numbers, Compare Fractions Lesson 32: Count by Equivalent Fractions



TN STATE STANDARDS	CONTENT	INSTRUCTIONAL SUPPORT	VOCABULARY/FLUENCY
	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: Peaches Plastic Building Blocks	Change Mixed Numbers to Fractions Add Mixed Numbers Lesson 33: Sprint: Change Mixed Numbers to Fractions Subtract Fractions from Whole Numbers Lesson 34: Sprint: Change Mixed Numbers to Fractions, Subtract Fractions from Whole Numbers
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 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	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.4) Lesson 37-38: I can find the product of a whole number and a mixed number using the distributive property. (4.NF.B.4)	Eureka Parent Newsletter- Topic G Optional Quiz: Topic G Pacing Considerations: Combine lesson 39 and 40 Omit lesson 41 Additional instructional resources for enrichment/remediation: Remediation Guide	Fluency Practice: Lesson 35: Add and Subtract Count by Equivalent Fractions Add and Subtract Mixed Numbers Lesson 36: Count by Equivalent Fractions Multiply Fractions



Quarter 3 Grade 4

TN STATE STANDARDS	CONTENT	INSTRUCTIONAL SUPPORT	VOCABULARY/FLUENCY
a multiple of 1/b, and use this understanding to multiply a fraction by a whole number. For 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?	Lesson 39: I can solve multiplicative comparison word problems involving fractions. (4.NF.B.4) 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.4, 4.MD.B.4)	 Ready teacher-toolbox aligned lessons Lesson 18 - Understand Fraction Multiplication 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 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 	Lesson 37: Add and Subtract Multiply Fractions Lesson 38: Multiply fractions Multiply Mixed Numbers Lesson 39: Sprint: Multiply Whole Numbers Times Fractions Multiply Mixed Numbers Lesson 40: Make a Whole Count by Equivalent Fractions Multiply Mixed Numbers
Domain: Order and Operations	Topic H: Exploring a Fraction Pattern	Eureka Parent Newsletter- Topic H No optional quiz available	Fluency Practice: Lesson 41:
Cluster: Generate and Analyze Patterns	Objectives/Learning Targets:	Pacing Considerations:	Add and Subtract
■ 4.OA.C.5: Generate a number or shape	Lesson 41: I can find and use a pattern to	No pacing considerations at this time.	Multiply Mixed Numbers
pattern that follows a given rule. Identify apparent features of the pattern that were not	calculate the sum of all fractional parts		Make a Whole

SCS 2018/2019 Revised 9/5/2018 15 of 20



explicit in the rule itself. For example, given the rule "Aad" and the stanting number 1, generate terms in the resulting sequence and observe that the terms appear to alternate between 0d and 1. Share and critique peer strategies. (4.OA.C.5) End of Module Assessment End of Module 5 Videos: • End of Module 5 Videos: • End of Module 5 Videos: • End of Herady Language Assessment End of Module 5 Videos: • End of Herady Language Assessment End of Module 5 Videos: • End of Herady Language Assessment End of Module 5 Videos: • End of Herady Language Assessment End of Modu	TN STATE STANDARDS	CONTENT	INSTRUCTIONAL SUPPORT	VOCABULARY/FLUENCY
	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	between 0 and 1. Share and critique peer strategies. (4.OA.C.5)	Additional instructional resources for enrichment/remediation: Remediation Guide Ready teacher-toolbox aligned lessons Lesson 8 - Number and Shape Patterns embarc.online- Module 5 Videos: Find the rule for a function machine using a vertical table I-Ready Lessons Using a Function Table Number and Shape Patterns Applying a Function Rule to Complete a Table Task Bank:	VOCABULARY/FLUENCY



Quarter 3 Grade 4

TN STATE STANDARDS CONTENT INSTRUCTIONAL SUPPORT VOCABULARY/FLUENCY

RESOURCE TOOLBOX

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.

NWEA MAP Resources: https://teach.mapnwea.org/assist/help_map/ApplicationHelp.htm#UsingTestResults/MAPReportsFinder.htm - Sign in and Click the Learning Continuum Tab – this resources will help as you plan for intervention, and differentiating small group instruction on the skill you are currently teaching. (Four Ways to Impact Teaching with the Learning Continuum) https://support.nwea.org/khanrit - These Khan Academy lessons are aligned to RIT scores.

Textbook Resources	CCSS	Videos
Great Minds' Eureka Math	<u>Tennessee Math Standards</u>	NCTM Common Core Videos
	Achieve the Core - Tasks	TN Tools – Edutoolbox
		Grade 3- LearnZillion
		CCSS Video Series
	Interactive Manipulatives	Additional Sites
	Multiplying by Repeated Addition	http://www.k-5mathteachingresources.com/3rd-grade-
	Related Repeated Addition to Multiplication	<u>number-activities.html</u>
	Multiplication Games	
	Multiplication Fluency	https://www.illustrativemathematics.org/content-
		standards/3
		http://www.edutoolbox.org/tntools/list/grade/819/955/3#9
		<u>60</u>

Other

Parent Roadmap: Supporting Your Child in Grade Three Mathematics Illustrated Mathematics Dictionary for Kids

*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)



Quarter 3	Qı	uar	ter	3
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			January	2019		
Lessons for the Week	Monday	Tuesday	Wednesday	Thursday	Friday	Notes:
		1	2	3	4	
	Winter Break		Profession	nal Developm	ent/Admin	
Module 5 Topic A: Lessons 1-6 (Combine lesson 1-3 over 2 days) (Omit Lesson 4) Topic B: Lesson 7	7 Begin 3 rd Nine Weeks	8	9	10	11	Combine lesson 1-3 over a 2-day period Omit lesson 4 Optional Quizzes: Module 5
Module 5 Topic B: Lessons 8-11 Topic C: Lesson 12	14	15	16	17	18	Topic A Topic B Topic C Topic D (Quizzes should not take more than 15 minutes to administer)
Module 5 Topic C: Lesson 13-15 Topic D: Lesson 16	21 Martin Luther King Jr. Day (Out)	22	23	24	25	
Module 5 Topic D: Lessons 17- 19 (Omit Lessons 20 and 21) 1-day Review Mid Module Assessment	28	29	30	31	1	Omit lesson 20 and 21 SCS 2018/20



Quarter :	3
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February 2019							
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Lessons for	Monday	Tuesday	Wednesday	Thursday	Friday	Notes:	
the Week							
Module 5 Topic D: Lessons 17- 19 (Omit Lessons 20 and 21) 1-day Review					Module 5: Mid Module Assessment Complete	Optional Quizzes: Module 5 <u>Topic E</u> <u>Topic F</u> <u>Topic G</u>	
Mid Module Assessment							
Module 5 Topic E: Lessons 22-26	4	5	6	Parent Conferences	8	(Quizzes should not take more than 15 minutes to administer)	
Module 5 Topic E: Lessons 27-28 (Omit Lesson 29) Topic F: Lessons 30-32	11	12	13	14	15	Omit lesson 29	
Module 5 Topic F: Lessons 33-34 Topic G: Lessons 35- 37	President's Day (In)	19	20	21	22		
Module 5 Topic G: Lessons 38- 40 (Combine 39/40) (Omit Lesson 41) 1-day Review End of Module Assessment	25	26	27	28	1	Combine lesson 39 and 40 Omit lesson 41	



Curriculum and Instruction – Mathematics

				March	2019		
Lessons	for	Monday	Tuesday	Wednesday	Thursday	Friday	Notes:
the We	ek						
Topic G: Lesson (Combine (Omit Les 1-day End of I	39/40)					Module 5: End of Module Assessment Complete	Optional Quizzes: Module 6 Topic A Topic B Topic C (Quizzes should not take more than 15 minutes to administer)
Flex (NWI M Topic A: Less Flex (Ta	odule 6 sons 1-3	4	5	6	7	8 3rd Nine Week	Note: <i>Flex days</i> are included in the instructional calendar to allow opportunities for review,
						ends	district testing, tasks and other school-based activities. (See
		11	12	13	14	15	curriculum map for Task Bank)
			Spr	ing Break			
Topic B: Less		Begin 4th Nine Weeks	19	20	21	22	
1-day Mid I	Review Module essment ons 9-11	25	Module 6: Mid Module Assessment Complete	27	28	29	