

Quarter 4 Grade 5

Mathematics Grade 5- Year at a Glance 2019-2020

Q1		Q2	·	Q3		Q4	ı
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Module 1	Module 2	Module 3	Module 4	Module 5	Module 6		Module 6
Aug 19- Sept 12	Sept 16- Nov 14	Nov 15- Dec 19	Jan 6- Dec 13	Feb 18- Mar 12	Mar 23- Apr 17		April 27-May 22
Place Value and Decimal Fractions	Multi- Digit Whole Number and Decimals Fraction Operations	Additions and Subtraction of Fractions	Multiplication and Division of Fractions and Decimal Fractions	Addition and Multiplication with Volume and Area	Problem Solving with the Coordinate Plane	13- May 8	Material covered after Mid Module Assessments are extension of 5th grade standards or review of previously taught skills
5.NBT.A.1	5.OA.A.1	5.NF.A.1	5.OA.A.1	5.NF.B.4b	5.0A.A.2		5.OA.B.3
5.NBT.A.2	5.OA.A.2	5.NF.A.2	5.OA.A.2	5.NF.B.6	5.OA.B.3	APRIL	5.G.A.1
5.NBT.A.3	5.NBT.A.1		5.NBT.B.7	5.MD.C.3	5.G.A.1	DY /	5.G.A.2
5.NBT.A.4	5.NBT.A.2		5.NF.B.3	5.MD.C.4	5.G.A.2	AD	
5.MD.A.1	5.NBT.B.5		5.NF.B.4a	5.MD.C.5		REAI	
	5.NBT.B.6		5.NF.B.5	5.G.B.3		Z	
	5.NBT.B.7		5.NF.B.6				
	5.MD.A.1		5.NF.B.7				
			5.MD.A.1				
			5.MD.B.2				

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 (Omission)



Quarter 4 Grade 5

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?

80% of seniors will be college-or career-ready

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



Coherence



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



Quarter 4 Grade 5

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.



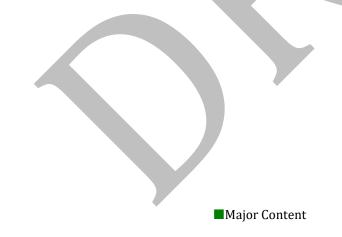
Quarter 4 Grade 5

Grade 5 Quarter 4 Overview

Module 6: Problem Solving with the Coordinate Plane

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				
5.OA.A.2	Conceptual Understanding	5.OA.A.1				
5.OA.B.3	Conceptual Understanding	4.OA.C.5, 3. OA.D.9				
5.G.A.1	Conceptual Understanding	3.NF.A.2, 2. MD.B.6				
5.G.A.2	Conceptual Understanding, Procedural Skill and Fluency, Application	3.NF.A.1, 2. MD.B.6				
Indicates Power Standards (2017-2018)						
Instructional Focus Documents- Grade 5						



4 of 13



TN STATE STANDARDS	TN STATE STANDARDS CONTENT		INSTRUCTIONAL SUPPORT & FLUENCY		
	Module 6: Problem Solvin	g with Coordinate Planes			
Domain: Geometry Cluster: Graph points on the coordinate plane	Topic A: Coordinate Systems	Eureka Parent Newsletter-Topic A Optional Quiz: Topic A	Vocabulary: Axis, Coordinate, Coordinate pair, Coordinate		
to solve real-world and mathematical problems.	Essential Questions	Optional Quiz: Topic A	plane, Ordered pair, Origin, Quadrant		
➤ 5.G.A.1 Use a pair of perpendicular	1. What are integers and what situations can integers represent?	Pacing Considerations: Combine lessons 3 and 4. Combine lessons 5	Familiar Terms and Symbols Angle, Angle measure, Degree, Horizontal,		
number lines, called axes, to define a coordinate	2. How can you describe the location of a point on a coordinate plane?	and 6.	Line, Parallel, Perpendicular, Point, Rule, Vertical		
system, with the intersection of the lines (the origin) arranged to coincide with the 0 on each	3. How can you find the distance between integers on the number line?	Suggestions for combining:			
line and a given point in the plane located by using an ordered pair of numbers, called its coordinates. Understand that the first number	4. How can you graph an equation on a coordinate grid?	Lessons 3 and 4	Additional instructional resources for enrichment/remediation:		
indicates how far to travel from the origin in the direction of one axis, and the second number	Objectives/Learning Targets: Lesson 1: / can construct a coordinate system on	Fluency: Lesson 3- Name Parts of the Coordinate Grid	Remediation Guide		
indicates how far to travel in the direction of the second axis, with the convention that the names of the two axes and the coordinates correspond (e.g., <i>x</i> -axis and <i>xx</i> -coordinate, <i>y</i> -		Lessons 3/4- Name Coordinates on a Coordinate Grid Lesson 3- Find the Missing Numbers on a Number Line	Ready teacher-toolbox aligned lessons: • Lesson28 - Understand the Coordinate Plane		
axis and <i>y</i> -coordinate).	Lesson 2: <i>I can</i> construct a coordinate system on a plane. (5.G.A.1)				
	Lesson 3-4: <i>I can</i> name points using coordinate pairs, and use the coordinate pairs to plot points. (5.G.A.1)	Concept Development: Lesson 3- Problems 1 and 2 Lesson 4- Review rules of playing	Zearn Lessons-Mission 6 Lesson1: Cool Coordinates Lesson2: Coordinate Pairs Lesson 3: Star Coordinates Lesson 4: Lining Up		
	Lesson 5-6: <i>I can</i> investigate patterns in vertical and horizontal lines, and interpret points on the plane as distances from the axes. (5.G.A.1)	Battleship and set up boards. Model playing a few rounds so that students understand the expectations for the game	Lesson 6: Coordinate Plane Puzzles		
		Problem Set: Lesson 4- Play Battleship	Embarc.online-Module 6		
		Exit Ticket: Lesson 3	Videos: • Plot points on a coordinate grid		



TN STATE STANDARDS	CONTENT	INSTRUCTIONA	L SUPPORT & FLUENCY
		Suggestions for combing lessons 5 and 6: Lessons 5 and 6 Fluency: Lesson 5- Multiply Lesson 5- Count by decimals Lesson 5/6- Decimals on a Number Line Concept Development: Lesson 5- Problems 1 and 2 Note: Incorporate language from Lesson 6 in discussion of the x and y coordinates while completing Problems 1 and 5 from Lesson 5. "The x-coordinate is units from the y-axis." "The y-coordinate is units from the x- axis." "They y-values above/below this horizontal line are all greater than /less that" "The x-values to the left/right of this vertical line are all less than / greater than" Lesson 6- Problem 3 Problem Set: Lesson 6- Problems 1,2 3 Exit Ticket Lesson 6	Plot points on a coordinate plane Task Bank: Battle Ship Using Grid Paper
Domain: Operations and Algebraic Thinking Cluster: Write and interpret expressions	Topic B: Patterns in the Coordinate Plane and Graphing Number Patterns from Rules	Eureka Parent Newsletter-Topic B Optional Quiz-Topic B	Additional instructional resources for enrichment/remediation: Remediation Guide
➤ 5.OA.A.2 Write simple expressions that record calculations with numbers, and interpret numerical expressions without evaluating them. For example, express the calculation "add 8		Pacing Considerations: No pacing considerations at this time.	Ready teacher-toolbox aligned lessons: Lesson20 - Analyze Patterns and Relationships



TN STATE STANDARDS	CONTENT	INSTRUCTIONA	L SUPPORT & FLUENCY
and 7, then multiply by 2" as 2 × (8 + 7). Recognize that 3 × (18932 + 921) is three times as large as 18932 + 921, without having	coordinate pairs. (5.OA.A.2, 5.G.A.1) Lesson 8: <i>I can</i> generate a number pattern from a		Zearn Lessons-Mission 6 Lesson 7: That's the Point Lesson 8: Plot the Rule
to calculate the indicated sum or product.	given rule, and plot the points. (5.OA.A.2, 5.G.A.1)		Lesson 9: Lasers on a Plane Lesson 10: Lines with Sparkle
Domain: Operations and Algebraic	,		'
Thinking	Lesson 9: I can generate two number patterns		Embarc.online-Module 6
Cluster: Analyze patterns and relationships	from given rules, plot the points, and analyze the patterns. (5.OA.B.3, 5.G.A.1)		Videos:
> 5.OA.B.3 Generate two numerical	Lesson 10: I can compare the lines and patterns	'	Represent a real world situation as a
patterns using two given rules. For example, given the rule "Add 3" and the starting number	generated by addition rules and multiplication rules. (5.OA.A.2, 5.OA.B.3, 5.G.A.1)		numerical expression
0, generate terms in the resulting sequences.	Lesson 11: I can analyze number patterns		I-Ready Lessons: • Numerical Expressions and Order of
a. Identify relationships between	created from mixed operations. (5.0A.A.2,		 Numerical Expressions and Order of Operations
corresponding terms in two numerical	5.OA.B.3)		Task Bank:
patterns. For example, observe that			Sidewalk Patterns
the terms in one sequence are twice	Lesson 12: I can create a rule to generate a		
the corresponding terms in the other	number pattern, and plot the points. (Topic B:		
sequence. b. Form ordered pairs consisting of	Lesson 12) (5.OA.A.2, 5.OA.B.3, 5.G.A.1)		
corresponding terms from two			
numerical patterns and graph the			
ordered pairs on a coordinate plane.			
Domain: Geometry	Topic C: Drawing Figures in the Coordinate	Eureka Parent Newsletter-Topic C	Additional instructional resources for
Cluster : Graph points on the coordinate plane to solve real-world and mathematical problems.	Plane		enrichment/remediation:
to solve real-world and mathematical problems.	Objectives/Learning Targets	Pacing Considerations:	
	2.1,2223,20	No pacing considerations at this time.	Remediation Guide
➤ 5.G.A.1 Use a pair of perpendicular	Lesson 13: I can construct parallel line segments	,	
number	on a rectangular grid. (5.G.A.1)		Ready teacher-toolbox aligned lessons:
lines, called axes, to define a coordinate	Language Advisor and the second secon		Lesson29 - Graph Points in the
system, with the intersection of the lines (the	Lesson 14: <i>I can</i> construct parallel line segments, and analyze relationships of the coordinate pairs.		Coordinate Plane
origin) arranged to coincide with the 0 on each line and a given point in the plane located by	(5.G.A.1, 5.G.A.2)		
using an ordered pair of numbers, called its	(5.5, 5.5)		Zearn Lessons-Mission 6
coordinates. Understand that the first number	Lesson 15: I can construct perpendicular line		Lesson 14: Paris and Parallels
indicates how far to travel from the origin in the	segments on a rectangular grid. (5.G.A.1)		2000011 17. 1 dilo dila 1 didilolo



TN STATE STANDARDS	CONTENT	INSTRUCTIONA	L SUPPORT & FLUENCY
direction of one axis, and the second number indicates how far to travel in the direction of the second axis, with the convention that the names of the two axes and the coordinates correspond (e.g., <i>x</i> -axis and <i>x</i> -coordinate, <i>y</i> -axis and <i>y</i> -coordinate). 5.G.A.2 Represent real-world and mathematical problems by graphing points in the first quadrant of the coordinate plan and interpret coordinate values of points in the context of the situation.	Lesson 16: <i>I can</i> construct perpendicular line segments, and analyze relationships of the coordinate pairs. (5.G.A.1, 5.G.A.2) Lesson 17: <i>I can</i> draw symmetric figures using distance and angle measure from the line of symmetry. (5.G.A.1)		Lesson 15: Perpendicular Pals Embarc.online-Module 6 Videos: Plot points on a coordinate grid Plot points on a coordinate plane
Domain: Operations and Algebraic Thinking Cluster: Analyze patterns and relationships > 5.OA.B.3 Generate two numerical patterns using two given rules. For example, given the rule "Add 3" and the starting number 0, generate terms in the resulting sequences. a. Identify relationships between corresponding terms in two numerical patterns. For example, observe that the terms in one sequence are twice the corresponding terms in the other sequence. b. Form ordered pairs consisting of corresponding terms from two numerical patterns and graph the ordered pairs on a coordinate plane	Plane		Additional instructional resources for enrichment/remediation: Remediation Guide Ready teacher-toolbox aligned lessons: Lesson29 - Graph Points in the Coordinate Plane Zearn Lessons-Mission 6 Lesson 18: Stella Symmetry Embarc.online-Module 6 I-Ready: Analyze Patterns and Relationships Task Bank: Sidewalk Patterns



Quarter 4 Grade 5

TN STATE STANDARDS	CONTENT	INSTRUCTIONA	L SUPPORT & FLUENCY
	Topic E: Multi-Step Word Problems Objectives/Learning Targets Lesson 21-25: <i>I can</i> make sense of complex, multi-step problems and persevere in solving them. Share and critique peer solutions. (5. NF.A. 2, 5. NF.B.3, 5. NF.B.6, 5. NF.B.7, 5. MD.A.1, 5.MD.C.5, 5.G.A.2)	Pacing Considerations: No pacing considerations at this time	Additional instructional resources for enrichment/remediation: Remediation Guide Zearn Lessons-Mission 6 Lesson 21: Perplexing Problems Part 1 Lesson 22: Perplexing Problems Part 2 Lesson 23: Perplexing Problems Part 3 Lesson 24: Perplexing Problems Part 4 Embarc.online-Module 6
	Topic F: The Years in Review: A Reflection on A Story of Units Objectives/Learning Targets: Lesson 26-27: I can solidify writing and interpreting numerical expressions. (5.OA.A.2) Lesson 28: I can solidify fluency with Grade 5 skills. Lesson 29-30: I can solidify the vocabulary of geometry. Lesson 31: I can explore the Fibonacci sequence. Lesson 32: I can explore patterns in saving money. Lesson 33-34: I can design and construct boxes to house materials for summer use. End of Module Assessment	Pacing Considerations: No pacing considerations at this time	Additional instructional resources for enrichment/remediation: Remediation Guide Zearn Lessons-Mission 6 Lesson 26: Far Out Expressions Lesson 27: Word Problem Wheel Lesson 28: Fluency Round Up Lesson 29: Geometry Carnival Lesson 30: Geometry Carnival Returns Lesson 32: Zearnland Savings Embarc.online-Module 6

■Major Content



Quarter 4 Grade 5

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	CCSS	Videos
<u>Great Minds' Eureka Math</u>		Eureka Resources/Homework
		Resources
	Achieve the Core	NCTM Common Core Videos
	TN Math Standards	TN Core Online Math Resources
		<u>LearnZillion</u>
Children's	Interactive Manipulatives	Additional Sites
Literature	Multiplying by Repeated Addition	http://www.k-
Math and	Related Repeated Addition to	5mathteachingresources.com/3rd-grade-
	Multiplication	<u>number-activities.html</u>
<u>Literature:</u>	Multiplication Games Multiplication Fluency	<u>illustrative mathematics- Grade 5</u>
A Match Made in the Classroom		http://www.edutoolbox.org/tntools/list/grade/8
Math for Kids-Best Children's		<u>19/955/3#96 0</u>
<u>Books</u>		
Scholastic: Books and Programs to Improve		
Elementary Math		

Other

Parent Roadmap: Supporting Your Child in Grade Five Mathematics

Illustrated Mathematics Dictionary for Kids

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)

10 of 13



			March	2020		
Module	Monday	Tuesday	Wednesday	Thursday	Friday	Notes:
	2	3	4	5	6	Flex Day Options Include: Standard- Suggested standard(s) to review for the day (*-denotes a Power Standard)
	9	10	11	12	13 End of Quarter 3	Pacing – Use this time to adjust instruction to stay on pace. Other- This includes assessments, review, re-teaching, etc. Optional quizzes- Module 6
	16	17	18	19	20	Topic A Topic B
		Spri	ng Break	I		(Topic quizzes should take no longer than 15 minutes)
Module 6	Topic A Lesson 1 Quarter 4 begins	24 Topic A Lesson 2	Topic A Combine lessons 3 and 4	Topic A Combine lessons 5 and 6	27 Flex Options *5.G.A.1 Pacing Other	
Module 6	30 Topic B Lesson 7	31 Topic B Lesson 8		2	3	



Module	Monday	Tuesday	Wednesday	Thursday	Friday	Notes:
			Topic B Lesson 9	2 Topic B Lesson 10	Flex Options 5.0A.A.2 Pacing Other	Flex Day Options Include: Standard- Suggested standard(s) to review for the day (*-denotes a Power Standard)
Module 6	6 Topic B Lesson 11	7 Topic B Lesson 12	8 Mid Module Assessment	Topic C Lesson 13	10 Spring Holiday/Good Friday (Out)	Pacing – Use this time to adjust instruction to stay on pace. Other- This includes assessments, review, re-teaching, etc.
Module 6	13 Topic C Lesson 14	14 Topic C Lesson 15	15 Topic C Lesson 16	16 Topic D Lesson 17	17 Flex Options Choice	Optional quizzes
Flex	– TN Rea	dy Testin	g (Dates	not Confi	irmed) ^{z4}	(Topic quizzes should take no longer than 15 minutes)
Flex	– TN Rea	dy Testin	g (Dates	not Confi	irmed)	
Module 6	27 Topic D Lesson 18	28 Topic D Lesson 19	29 Topic D Lesson 20	30 Topic E Lesson 21	1	



			May 2	020		
Module	Monday	Tuesday	Wednesday	Thursday	Friday	Notes:
					Flex Options *5.G.A.1 5.G.A.2 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
	4 Topic E Lesson 22	5 Topic E Lesson 23	Topic E Lesson 24	7 Topic E Lesson 25	8 Topic F Lesson 26	instruction to stay on pace. Other- This includes assessments, review, re-teaching, etc. Optional quizzes- Module
	11 Topic F Lesson 27	Topic F Lesson 28	Topic F Lesson 29	Topic F Lesson 30	15 Topic F Lesson 31	(Topic quizzes should take no longer than 15 minutes)
	18 Topic F Lesson 32	19 Topic F Lesson 33	20 Topic F Lesson 34	21 End of Module Assessment	22 1/2 day students End of Quarter 4	
	25 Memorial Day	26	27 PD FI	LEX DAY	29	



