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			Mathematic	s		
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		G	rade o: rear at a	Glance		
		01	2018-2019			
Q1		Q2		Q3	Q4	
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Module 1 Aug. 6 – Sept. 14	Module 2 Sept. 17-Oct. 22	Module 3 Oct. 23-Nov. 27	Module 4 Nov. 28-Jan. 30	Module 5 Jan. 31 - March 8	Module 6 March 18 – April 12	After Testing April 29 – May 24
Ratios and Unit Rates	Arithmetic Operations Including Division of Fractions	Rational Numbers	Expressions and Equations	Area, Surface Area & Volume	Statistics	Lessons from Modules 1, 2, 4, 5 & 6
6.RP.1	6.NS.1	6.NS.5	6.EE.1	6.G.1	6.SP.1	6.RP.3
6.RP.2	6.NS.2	6.NS.6	6.EE.2	6.G.2	6.SP.2	6.NS.4
6.RP.3	6.NS.4	6.NS.7	6.EE.3	6.G.3	6.SP.3	6.EE.2c
	6.NS.4	6.NS.8	6.EE.4	6.G.4	6.SP.4	6.EE.6
			6.EE.5		6.SP.5	6.EE.7
			6.EE.6			6.G.2
			6.EE.7			6.G.4
			6.EE.8			6.SP.2
			6.EE.9			6.SP.3
						6.SP.4
						6.SP.5
Major Co	ontent		Supporting Cont	tent		

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

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)

Eureka Grade 6 Pacing and Preparation Guide



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## 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



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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.



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## Structure of the Standards

Structure of the TN State Standards include:

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- 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.



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## How to Use the Maps

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#### Overview

An overview is provided for each guarter 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.



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## Grade 6 Quarter 3 Overview

## Module 4: Expressions & Equations Module 5: Area, Surface Area (SA), & Volume

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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.

Grade Level Standard	Type of Rigor	Foundational Standards
6.EE.2	Procedural Fluency	5.OA.2, 5.OA.3
6.EE.3	Application	5.OA.2
6.EE.4	Conceptual Understanding	5.OA.2
6.EE.5	Conceptual Understanding, Procedural Fluency	5.OA.2, 5.OA.3, 6.EE.1
6.EE.6	Conceptual Understanding; Application	5.OA.2, 5.OA.3, 6.EE.1
6.EE.7	Procedural Fluency & Application	5.NF.1, 5.NF.4, 6.NS.1
6.EE.8	Conceptual Understanding & Application	6.NS.6, 6.NS.7
6.EE.9	Conceptual Understanding & Application	5.OA.3
6.G.1	Procedural Fluency; Application	5.NF.4
6.G.2	Conceptual Understanding, Procedural Fluency &	5.MD.5
	Application	
6.G.3	Procedural Fluency; Application	5.G.2
6.G.4	Conceptual Understanding	5.MD.C.5

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INSTRUCTIONAL SUPPORT CONTENT VOCABULARY **TN STATE STANDARDS** Module 4 Expressions and Equations, Cont'd Grade 6 Pacing and Preparation Guide (Allow approximately 3 weeks for instruction, review and assessment) 6.EE.A.2a: Write expressions that record **Topic E: Expressing Operations in** Vocabulary for Module 4: Topic E Objectives: operations with numbers and with letters Algebraic Form Equation, Equivalent Expressions, Exponential standing for numbers. "Subtract y from 5" Notation for Whole Number Exponents, Lesson 15: as 5-v Expression, Linear Expression, Number Lesson 15 **6.EE.A.2b**: Identify parts of an Lesson 16 Sentence, Numerical Expression, Solution of • Students read expressions in which letters expression using mathematical terms Lesson 17 Omit an Equation Truth Values of a Number stand for numbers. They assign operation (sum, term, product, factor, quotient, Sentence Value of a Numerical Expression, terms to operations when reading. coefficient); view one or more parts of an Variable For Topic E, you may use the resources • Students identify parts of an algebraic expression as a single entity. expression using mathematical terms for from Teacher Toolbox Lesson 16: Familiar Terms and Symbols for Module 4: all operations. Algebraic Expressions for review, Distribute, Expand, Factor, Number Sentence, remediation, and/or assessment to meet Lesson 16: Product. Properties of Operations (distributive. the needs of your students. Students write algebraic expressions that commutative, associative), Quotient, Sum, record all operations with numbers and/or Term, True or False Number Sentence, letters standing for the numbers. Mid-Module 4 Assessment (omit #1-2) & Variable or Unknown Number **Review of Assessment** (Complete by 1/15/19) **Reminder:** It is recommended that teachers begin preparing for Module 5 by 1/16/18. 6.EE.A.2a: Write expressions that record Topic F: Writing and Evaluating Essential Question(s): **Expressions and Formulas** operations with numbers and with letters How do arithmetic properties contribute to standing for numbers. "Subtract y from 5" algebraic understanding? as 5-v Lesson 18 How do the order of operations and Lesson 19 **6.EE.A.2.c**: Evaluate expressions at properties help simplify and evaluate specific values of their variables. Include Lesson 20 algebraic expressions? expressions that arise from formulas used Lesson 21 Omit • In what ways can you reason and solve in real-world problems. Perform arithmetic Lesson 22 one-variable equations and inequalities? operations, including those involving whole number exponents, in the For Topic F, you may use the resources conventional order when there are no from Teacher Toolbox Lessons 16: parentheses to specify a particular order Algebraic Expressions and 17: Equivalent

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# **Curriculum and Instruction – Mathematics**

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TN STATE STANDARDS	CONTENT	INSTRUCTIONAL SUPPORT	VOCABULARY
<ul> <li>(Order of Operations).</li> <li>Domain: Expressions and Equations Cluster: Reason about and solve one-variable equations and inequalities.</li> <li>6.EE.B.6: Use variables to represent numbers and write expressions when solving a real-world or mathematical problem; understand that a variable can represent an unknown number, or, depending on the purpose at hand, any number in a specified set.</li> </ul>	<ul> <li>Topic F Objectives:</li> <li>Lesson 18:</li> <li>Students use variables to write expressions involving addition and subtraction from real-world problems.</li> <li>Students evaluate these expressions when given the value of the variable.</li> <li>Lesson 19:</li> <li>Students develop expressions involving addition and subtraction from real-world problems.</li> <li>Students evaluate these expressions for given values.</li> <li>Lesson 20:</li> <li>Students develop expressions involving multiplication and division from real-world problems.</li> <li>Students evaluate these expressions for given values.</li> <li>Lesson 21:</li> <li>Students develop formulas involving multiplication and addition from real world problems.</li> <li>Students develop formulas involving multiplication and addition from real world problems.</li> <li>Students develop formulas involving multiplication and addition from real world problems.</li> <li>Students develop formulas involving multiplication and addition from real world problems.</li> <li>Students evaluate these formulas for given values.</li> <li>Lesson 22:</li> <li>Students evaluate and write formulas involving multiplication and addition from real world problems.</li> </ul>	Expressions for review, remediation, and/or assessment to meet the needs of your students. Additional Resources: These optional resources may be used for extension, enrichment and/or additional practice, as needed. Illustrative Math: Firefighter Allocation Illustrative Math: Families of Triangles 6.EE.C.2 Assessment Tasks for 6.EE.A.2	



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TN STATE STANDARDS	CONTENT	INSTRUCTIONAL SUPPORT	VOCABULARY
<ul> <li>Domain: Expressions and Equations</li> <li>Cluster: Reason about and solve one-variable equations and inequalities.</li> <li>6.EE.B.5: Understand solving an equation or inequality is carried out by determining if any of the values from a given set make the equation or inequality true. Use substitution to determine whether a given number in a specified set makes an equation or inequality true.</li> <li>6.EE.B.6: Use variables to represent numbers and write expressions when solving a real-world or mathematical problem; understand that a variable can represent an unknown number, or, depending on the purpose at hand, any number in a specified set.</li> <li>6.EE.B.7: Solve real-world and mathematical problems by writing and solving one-step equations of the form x + p = q and px = q for cases in which p, q, and x are all nonnegative rational numbers.</li> </ul>	<ul> <li>Essential Questions(s):</li> <li>How can you determine if values from a specified set, if any, make an equation or inequality true?</li> <li>Topic G Objectives:</li> <li>Lesson 23:</li> <li>Students explain what the equality and inequality symbols including =, &lt;, &gt;, ≤, and ≥ represent. They determine if a number sentence is true or false based on the given symbol.</li> <li>Lesson 24:</li> <li>Students identify values for the variables in equations and inequalities that result in true number sentences.</li> <li>Students identify values for the variables in equations and inequalities that result in false number sentences.</li> <li>Students identify values for the variables in equations and inequalities that result in false number sentences.</li> <li>Students learn the definition of solution in the context of placing a value into a variable to see if that value makes the equation true.</li> <li>Lesson 26:</li> <li>Students solve one-step equations by relating an equation to a diagram.</li> <li>Students solve one-step equations by relating an equation to a diagram.</li> <li>Students solve one-step equations by relating an equation to a diagram.</li> <li>Students check to determine if their solutions make the equations by relating an equation to a diagram.</li> </ul>	Topic G: Solving Equations Lesson 23-25, Combine Suggestions for combining • Lesson 23 - Opening exercise, Example 1, Exercises 1-10 • Lesson 24 - Example 1, Exercises 1- 12 • Lesson 25 - Example 1 • Homework - Lessons 23-24 Problem Sets Lesson 26 Lesson 27 Lesson 28 Omit Lesson 29 Omit For Topic G, you may use the resources from Teacher Toolbox Lessons 18: Understand Solutions to Equations and 19: Solve Equations for review, remediation, and/or assessment to meet the needs of your students. Additional Resources: These optional resources may be used for extension, enrichment and/or additional practice, as needed. Illustrative Math: Log Ride Illustrative Math: Morning Walk Performance Assessment Task: Boxes 6.EE.B.4 & 6.EE.B.5	



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TN STATE STANDARDS	CONTENT	INSTRUCTIONAL SUPPORT	VOCABULARY
	<ul> <li>solutions make the equations true.</li> <li>Lesson 28:</li> <li>Students calculate the solutions of two-step equations by using their knowledge of order of operations and the properties of equality for addition, subtraction, multiplication, and division. Students employ tape diagrams to determine their answers.</li> <li>Students check to determine if their solutions make the equations true.</li> <li>Lesson 29:</li> <li>Students use their knowledge of simplifying expressions, order of operations, and properties of equality to calculate the</li> </ul>		
	solution of multi-step equations. Students use tables to determine their answers. • Students check to determine if their solutions make the equations true. Essential Question(s):	Topic H: Applications of Equations	
<ul> <li>6.EE.B.5: Understand solving an equation or inequality is carried out by determining if any of the values from a given set make the equation or inequality true. Use substitution to determine whether a given number in a specified set makes an equation or inequality true.</li> <li>6.EE.B.6: Use variables to represent numbers and write expressions when</li> </ul>	<ul> <li>How can you write and evaluate an expression that represents a real-life problem?</li> <li>How can you show that inequalities can have infinitely many solutions?</li> <li>In what ways can you show the relationship between dependent and independent variables?</li> </ul>	Lesson 30 Skip and do after TNReady Lesson 31 Lesson 32 Omit Lesson 33-34, Combine Suggestions for combining Lesson 33 – Examples 1-2 Lesson 34 – Examples 1-3, Exercises 1-5, Exit Ticket & Problem Set (HW)	
<ul> <li>solving a real-world or mathematical problem; understand that a variable can represent an unknown number, or, depending on the purpose at hand, any number in a specified set.</li> <li>6.EE.B.7: Solve real-world and</li> </ul>	Topic H Objectives: Lesson 30: • Students calculate missing angle measures by writing and solving equations. Lesson 31:	For Topic H, you may use the resources from Teacher Toolbox Lessons 20: Solve Inequalities and 21: Dependent and Independent Variables for review, remediation, and/or assessment to meet	



# **Curriculum and Instruction – Mathematics**

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<ul> <li>mathematical problems by writing and solving one-step equations of the form x + p = q and px = q for cases in which p, q, and x are all nonnegative rational numbers.</li> <li>6.EE.B.8: Interpret and write an inequality of the form x &gt; c or x &lt; c which represents a condition or constraint in a real-world or mathematical problem. Recognize that inequalities have infinitely many solutions;</li> </ul>	<ul> <li>Students analyze an equation in two variables to choose an independent variable and a dependent variable.</li> <li>Students determine whether or not the equation is solved for the second variable in terms of the first variable or vice versa. They then use this information to determine which variable is the independent variable and which is the dependent variable.</li> <li>Students create a table by placing the</li> </ul>	the needs of your students. End-of-Module 4 Assessment & Review of Assessment (Complete by 1/30/19) Additional Resources: These optional resources may be used for extension, enrichment and/or additional practice, as needed. TN Tack Ark: Exploring Expressions and	
represent solutions of inequalities on number line diagrams. <b>Domain</b> : Expressions and Equations <b>Cluster:</b> Represent and analyze quantitative relationships between dependent and independent variables.	independent variable in the first row or column and the dependent variable in the second row or column. They compute entries in the table by choosing arbitrary values for the independent variable (no constraints) and then determine what the dependent variable must be.	Equations (6.EE.8 tasks) Illustrative Math: Fishing Adventures 1 Illustrative Math: Chocolate Bar Sales	
6.EE.C.9: Use variables to represent two quantities in a real-world problem that change in relationship to one another. For example, Susan is putting money in her savings account by depositing a set amount each week (50). Represent her savings account balance with respect to the number of weekly deposits (s = 50w, illustrating the relationship between	<ul> <li>Students analyze an equation in two variables, choose an independent variable and a dependent variable, make a table, and make a graph for the equation by plotting the points in the table. For the graph, the independent variable is usually represented by the horizontal axis, and the dependent variable is usually represented by the vertical axis.</li> </ul>		
<ul> <li>balance amount s and number of weeks w).</li> <li>a. Write an equation to express one quantity, thought of as the dependent variable, in terms of the other quantity, thought of as the independent variable.</li> <li>b. Analyze the relationship between the</li> </ul>	<ul> <li>Students understand that an inequality with numerical expressions is either true or false. It is true if the numbers calculated on each side of the inequality sign result in a correct statement and is false otherwise.</li> <li>Students understand solving an inequality is answering the question of which values</li> </ul>		

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dependent and independent variables using graphs and tables, and relate these	from a specified set, if any, make the inequality true.		
to the equation.	Lesson 34:		
	• Students recognize that inequalities of the form <i>x</i> < <i>c</i> and <i>x</i> > <i>c</i> , where <i>x</i> is a variable and <i>c</i> is a fixed number, have infinitely many solutions when the values of <i>x</i> come from a set of rational numbers.		

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TN STATE STANDARDS     CONTENT     INSTRUCTIONAL SUPPORT     VOCABULARY       Module 5 Area, Surface Area and Volume Problems Grade 6 Pacing and Preparation Guide (Allow approximately weeks for instruction, review and assessment)     Vocabulary for Module 5       Domain:: Geometry Cluster: Solve real-world and mathematical problems involving area, surface area and volume.     Essential Question(s): • How can ny understanding of finding areas of rectangles and triangles help find the area of another shape?     Topic A: Area of Triangles, Quadrilaterals and Polygons     Vacabulary for Module 5       • 6.6.A.1: Find the area of right triangles, other triangles, special questification, and the area of another shape?     Topic A Dipetrives:     Lesson 1       • Sudents work through the shapes; know and apply these techniques in the contract foshing real-world and the mathematical problems.     • Students work through the ease of a rangle composed of two right frangle Area of a figure and the area of a parallelogram is the area of the region bounded by the arallelogram.     • Students work through the challenge in Lesson 2.     - Students work through the challenge in Lesson 2.     - For Topic A, you may use the resources from Tspic A optications a triangle right intengles as parallelogram is the area of the region bounded by the granalelogram.     • Students work through the challenge in Lesson 2.     • Additional Paracle, Aea or Polycons for review, remediation, and/or assessment to meet the needs of polycons intengle to the thingle is hie leight of the thingle is hie leight of the t	TN STATE STANDARDS       CONTENT       INSTRUCTIONAL SUPPORT       VOCABULARY         Module 5 Area, Surface Area and Volume Problems Grade 6 Pacing and Preparation Guide (Allow approximately 6 weeks for instruction, review and assessment)       Vocabulary for Module 5         Domain: Geometry Cluster: Solve real-world and mathematical problems involving area, surface area and volume.       Fessential Question(s): - How can you find the area of composite figure?       Topic A: Xrea of Triangles, Quadrilaterals and Polygons       Vocabulary for Module 5         • 6.6.4.1: Find the area of right triangles, other triangles, secial quadrilaterals, and polygons by composing into triangles and other shapes; know and apply these techniques in the context of solving real-world and mathematical problems.       Essential Question(s): - How can the coordinate plane be used as a strategy to find the length of a side of a figure and the area of a figure?       Lesson 1       Lesson 1       Lesson 1       Students show the area formula for the region bounded by a parallelogram by composing it into rectangles. To parallelogram.       Students show the area formula for the region bounded by a parallelogram by composing it into rectangles. To parallelogram.       For Topic A, you may use the resources from Teacher Toolbox Lesson 2: Area of Polygons for review, remediation, and/or assesment to meet the needs of your students.       Triangle, Volume         6       Students justify the area formula for a right triangle by viewing the right triangle as part of a rectangle composed of two right triangles.       Students justify the area formula for a right triangle by viewing the right triangle aspen of a rectangle composed of two				
Module 5 Area, Surface Area and Volume Problems         Grade 6 Pacing and Preparation Guide         (Allow approximately 6 weeks for instruction, review and assessment)         Domain: Geometry         Cluster: Solve real-world and mathematical problems involving area, surface area and volume.         > 6.6.A1: Find the area of right triangles, quadinaterials, and polycons by composing into triangles and triangles help find the area of a prism, Triangles help find the area of a figure and the area of a figure?       How can my understanding of finding areas or figure and the area of a figure?       Lesson 1       Lesson 1       Suggestions for combining       Familiar Terms and Symbols for Module 5         Topic A Objectives:       Topic A Objectives:       Suddents show the area of a parallelogram by composing in to triangles, couponed by a parallelogram by composing into triangles, periately on bio moded by a parallelogram by composing into triangles height the area of a parallelogram by composing into triangles. Cube, height of the triangle is region bounded by the parallelogram by composing into triangles. Cube, height of the triangle is region bounded by the parallelogram by composing into triangles. Cube, height of the triangle is region bounded by the parallelogram by composing into triangles. Cube, height of the triangles is period for extraingle.       Familiar Terms and Symbols for Module 5         Suddents show the area of a parallelogram by composing in the triangle is refere on the region bounded by the parallelogram by composing in the triangle is refere form take for extraing, exercise 1 meseson, a moderexerces from teacher, exerces form tader, field or ext	Module 5 Area, Surface Area and Volume Problems         Grade 6 Pacing and Preparation Guide         (Allow approximately 6 weeks for instruction, review and assessment)         Domain: Geometry         Cluster: Solve real-wold and mathematical problems involving area, surface area and yolume.       Corport A: Carea of Triangles, Quadrilaterals, and polygons by composing into triangles and other shapes; frow and apply these techniques in the context of solving real-world and mathematical problems.       Corport A: Carea of A, Combine       Suggestions for combining         > 6.G.A.1: Find the area of right triangles, and polygons by composing into triangles and other shapes; frow and apply these techniques in the context of solving real-world and mathematical problems.       - How can my understanding of finding areas of figure?       - How can my understanding of finding areas of figure?       - How can the coordinate plane be used as a strategy to find the length of a side of a figure?       - How can the coordinate plane be used as a strategy to find the area of a figure?       - How can the coordinate plane be used as a strategy to find the area of a figure?       - How can the coordinate plane be used of a granelelogram by composing in the area of a figure?       - How can the coordinate plane be used as a strategy to find the area of a figure?       - Boy context of solving real-world and finance.       - Boy context of solving real-world and the area of a figure?       - Topic A Objectives:       - Boy context of a sparalelogram by composing in the rarea of the rengion bounded by a paralelogram.       - Boy context of a	TN STATE STANDARDS	CONTENT	INSTRUCTIONAL SUPPORT	VOCABULARY
Grade 6 Pacing and Preparation Guide (Allow approximately 6 weeks for instruction, review and assessment)         Domain: Geometry Cluster: Solve real-wold and mathematical problems involving area, surface area and oblume.       Sesmial Question(s):	Grade 6 Pacing and Preparation Guide (Allow approximately 6 weeks for instruction, review and assessment)       Vacabulary for Module 5         Domain: Geometry Cluster: Solve real-world and mathematical problems involving area, surface area and volume.       Essential Question(s):       Topic A Xea of Triangles, Quadrilaterals, and Polygons       Vacabulary for Module 5         6.6.A.1: Find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles on the coordinate plane be used as a strategy to find the length of a side of a figure and the area of a figure?       Lesson 1       Lesson 4. Combine Suggestions for combining       Parallel Planes, Pentagon, Right Rectangle Suggestions for combining       Parallelogram, Perimeter, Perpendicular, Sugar modeling exercise, have students complete part of the chart for suggestion for       Parallelogram, Perimeter, Perpendicular, Sudents show the area formula for the region bounded by a parallelogram is the area of the region bounded by the parallelogram.       Sudents show the area formula for a right triangles, Dueson 22: Area of Polygons for review, remediation, androf as		Module 5 Area, Surface A	rea and Volume Problems	
(Allow approximately 6 weeks for instruction, review and assessment)         Domain: Geometry Cluster: Solve real-world and mathematical problems involving area, surface area and volume.       Essential Question(s):       Vocabulary for Module 5 Altitude and Base of a Triangle, Cube, figure?         6.6.A.1: Find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles and the shapes; know and apply these techniques in the context of solving real-world and mathematical problems.       Eason 1 Lesson 1       Lesson 4 Lesson 3 and Polygons       Lesson 1 Lesson 4 Lesson 3 and Polygons       Familia Terms and Symbols for Module 5 Angle, Area, Length of a Segment, Parallel, Parallel Parallel, Parallel Parallel, Parallel Parallel, Parallel Parallel, Parallel Parallel, Parallel Parallel, Parallel Parallel, Parallel Quert composing into triangles, Clube, the scond the treate of a fairure?         Topic A Objectives:       Topic A Objectives:       Lesson 1       Students work through Lesson 3 or Students work through Lesson 2 . Students justify the area formula for the region bounded by the parallelogram. Lesson 5       Students work through Lesson 2 . Students justify the area formula for a triangle by viewing the right triangle as parallelogram is the area of the region bounded by the parallelogram. Lesson 3       Additional Resources: These optional resources may be used for extension, enrichment and/or additional practice, as meded.       Additional practice, as meded.	(Allow approximately 6 weeks for instruction, review and assessment)         Domain: Geometry Cluster: Solve real-world and mathematical problems involving area, surface area and volume.       Coabulary for Module 5         6.6.A.1: Find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into treatangles of strategy to find the length of a side of a decomposing into treatangles of the context of solving real-world and mathematical problems.       How can my understanding of finding areas of rectangles and ther shapes; know and apply these techniques in the context of solving real-world and mathematical problems.       How can the coordinate plane be used as strategy to find the length of a side of figure and the area of a figure?       Lesson 1       Lesson 3       Vocabulary for Module 5         7 Dip A Objectives:       How can the coordinate plane be used as strategion bounded by a parallelogram is the area of the region bounded by the parallelogram.       How can the area of a figure?       Lesson 4       Lesson 3       Natifacera, Retange, Sepecial complete part of the chart for guidance.         Lesson 1       Students show the area formula for the region bounded by a parallelogram is the area of the region bounded by the parallelogram.       Students justif the area for parallelogram.       For Topic A, you may use the resources from Teacher Toolbox Lesson 22: Area of Polygons for review, remediation, and/or assessment to meet the needs of your students.       Additional Resources: These optional resources may be used for extension, enrichment and/or additional practice, as needed.		Grade 6 Pacing and	Preparation Guide	
<ul> <li>Domain: Geometry Cluster: Solve real-world and mathematical problems involving area, surface area and volume.</li> <li>6.G.A.1: Find the area of right triangles, other triangles, special quadrilaters, and polycons by composing into triangles and triangles help find the area of another shape?</li> <li>How can my understanding of finding areas of rectangles and triangles help find the area of another shape?</li> <li>How can the coordinate plane be used as a strategy to find the length of a side of a figure and the area of a figure?</li> <li>Topic A Objectives:</li> <li>Lesson 1</li> <li>Students show the area of a parallelogram is the area of the triangle sone of a parallelogram is the area of a parallelogram.</li> <li>Students justify the area formula for a triangle by viewing the right triangle as parallelogram.</li> <li>Students justify the area formula for a triangle by viewing the right triangle as parallelogram.</li> <li>Students justify the area formula for a triangle by viewing the right triangle as parallelogram.</li> <li>Students justify the area formula for a triangle by viewing the right triangle as parallelogram.</li> <li>Students justify the area formula for a triangle by viewing the right triangle as parallelogram.</li> <li>Students justify the area formula for a triangle by viewing the right triangle as parallelogram.</li> <li>Students justify the area formula for a triangle by viewing the right triangle as parallelogram.</li> <li>Students show the area formula for a triangle by viewing the right triangle as parallelogram.</li> <li>Students show the area formula for a triangle by viewing the right triangle as parallelogram.</li> <li>Students show the area formula for a triangle right riangles. For a given triangle, the gipt of the triangle is the length of the the spit of the triangle is the length of the the spit of the triangle is the length of the the spit of the triangle.</li> <li>Mattitude mathematical problex Lesson 2: Area of Polygons triangle by viewing the right triangles. For a</li></ul>	Domain: Geometry Cluster: Solve real-world and mathematical problems involving area, surface area and volume.       Essential Question(s):       Topic A: Area of Triangle, Quadrilaterals and Polygons       Vocabulary for Module 5 Altitude and Base of a Triangle, Cube, figure?         * 6.G.A.1: Find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles and thangles help find the area of another shape?       Topic A: Area of Triangle, Quadrilaterals and Polygons       Vocabulary for Module 5 Altitude and Base of a Triangle, Cube, figure?         • 6.G.A.1: Find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles in the context of solving real-world and mathematical problems.       Essent 1       Lesson 1       Lesson 1         • Topic A Objectives:       Topic A Objectives:       • Teacher walk through Lesson 3       • Teacher walk through Lesson 3 modeling exircise, have students complete part of the chart for Exercise 1 in Lesson 4 with teacher guidance.       • Students show the area of the region bounded by a parallelogram is the area of the region bounded by a parallelogram is the area of the region bounded by the parallelogram.       • Students show the area formula for a right friangle by viewing the right triangle as part of a rectangle composed of two right triangles.         • Students show the area formula for the parallelogram.       • Students show the area formula for a parallelogram is the area of the region bounded by the parallelogram.       • Topic A, you may use the resources from Teacher Toolbox Lesson 22: Area of Polygons for review, remediation, and/or astudents.         • Students sh		(Allow approximately 6 weeks for in	nstruction, review and assessment)	
altitude. The length of the base is called either the length base or, more commonly, Illustrative Math: Same Base Height Variation	triangular region by decomposing a triangle into right triangles. For a given triangle, the height of the triangle is the length of the altitude. The length of the base is called either the length base or, more commonly,Illustrative Math: Finding Area of Polygons Task Illustrative Math: Polygons in the Coordinate Plane TaskPlane Task Illustrative Math: Same Base Height Variation	<ul> <li>Domain: Geometry Cluster: Solve real-world and mathematical problems involving area, surface area and volume.</li> <li>6.G.A.1: Find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles or decomposing into triangles and other shapes; know and apply these techniques in the context of solving real-world and mathematical problems.</li> </ul>	<ul> <li>(Allow approximately 6 weeks for in Essential Question(s):</li> <li>How can you find the area of composite figure?</li> <li>How can my understanding of finding areas of rectangles and triangles help find the area of another shape?</li> <li>How can the coordinate plane be used as a strategy to find the length of a side of a figure and the area of a figure?</li> <li>Topic A Objectives:</li> <li>Lesson 1</li> <li>Students show the area formula for the region bounded by a parallelogram by composing it into rectangles. They understand that the area of a parallelogram is the area of the region bounded by the parallelogram.</li> <li>Lesson 2</li> <li>Students show the area formula for a right triangle by viewing the right triangle as part of a rectangle composed of two right triangles.</li> <li>Lesson 3</li> <li>Students show the area formula for a triangle into right triangle is the length of the altitude. The length of the base is called either the length base or, more commonly,</li> </ul>	<ul> <li>Instruction, review and assessment)</li> <li>Topic A: Area of Triangles, Quadrilaterals and Polygons</li> <li>Lesson 1</li> <li>Lesson 2</li> <li>Lesson 3-4, Combine</li> <li>Suggestions for combining <ul> <li>Teacher walk through Lesson 3</li> <li>modeling exercise, have students complete part of the chart for Exercise 1 in Lesson 3</li> <li>Students work through the challenge in Lesson 4 with teacher guidance.</li> </ul> </li> <li>Lesson 5</li> <li>Lesson 6</li> <li>For Topic A, you may use the resources from Teacher Toolbox Lesson 22: Area of Polygons for review, remediation, and/or assessment to meet the needs of your students.</li> <li>Additional Resources: These optional resources may be used for extension, enrichment and/or additional practice, as needed.</li> <li>Illustrative Math: Finding Area of Polygons Task</li> <li>Illustrative Math: Polygons in the Coordinate Plane Task</li> <li>Illustrative Math: Same Base Height Variation</li> </ul>	<ul> <li>Vocabulary for Module 5</li> <li>Altitude and Base of a Triangle, Cube, Hexagon, Line Perpendicular to a Plane, Net, Parallel Planes, Pentagon, Right Rectangular Prism, Surface of a Prism, Triangular Region</li> <li>Familiar Terms and Symbols for Module 5: Angle, Area, Length of a Segment, Parallel, Parallelogram, Perimeter, Perpendicular, Quadrilateral, Rectangle, Segment, Square, Trapezoid, Triangle, Volume</li> </ul>

Major Work

Supporting Work



# **Curriculum and Instruction – Mathematics**

Grade 6

TN STATE STANDARDS	CONTENT	INSTRUCTIONAL SUPPORT	VOCABULARY
	<ul> <li>Students understand that the height of the triangle is the perpendicular segment from a vertex of a triangle to the line containing the opposite side. The opposite side is called the base.</li> </ul>	Illustrative Math: Same Base and Height Variation 1 Task	
	Students understand that any side of a triangle can be considered a base and that the choice of base determines the height.		
	Lesson 4		•
	<ul> <li>Students construct the altitude for three different cases: an altitude that is a side of a right angle, an altitude that lies over the base, and an altitude that is outside the triangle.</li> <li>Students deconstruct triangles to justify that the area of a triangle is exactly one half the area of a parallelogram.</li> </ul>		
	Lesson 5		
	• Students show the area formula for the region bounded by a polygon by decomposing the region into triangles and other polygons. They understand that the area of a polygon is actually the area of the region bounded by the polygon.		
	• Students find the area for the region bounded by a trapezoid by decomposing the region into two triangles. They understand that the area of a trapezoid is actually the area of the region bounded by the trapezoid. Students decompose rectangles to determine the area of other quadrilaterals.		
	<ul><li>Lesson 6</li><li>Students determine the area of composite</li></ul>		
	tigures in real-life contextual situations		

Major Work

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# **Curriculum and Instruction – Mathematics**

Grade 6

TN STATE STANDARDS	CONTENT	INSTRUCTIONAL SUPPORT	VOCABULARY
	<ul> <li>using composition and decomposition of polygons.</li> <li>Students determine the area of a missing region using composition and decomposition of polygons.</li> </ul>		
<ul> <li>Domain: Geometry</li> <li>Cluster: Solve real-world and mathematical problems involving area, surface area and volume.</li> <li>6.G.A.3: Draw polygons in the coordinate plane given coordinates for the vertices; use coordinates to find the length of a side that joins two vertices (vertical or horizontal segments only). Know and apply these techniques in the context of solving real-world and mathematical problems.</li> </ul>	<ul> <li>Essential Question(s):</li> <li>How can you find the area of composite figure?</li> <li>How can my understanding of finding areas of rectangles and triangles help find the area of another shape?</li> <li>How can the coordinate plane be used as a strategy to find the length of a side of a figure and the area of a figure?</li> <li>Topic B Objectives:</li> <li>Lesson 8:</li> <li>Given coordinates for the vertices, students draw polygons in the coordinate plane. Students find the area enclosed by a polygon by composing or decomposing using polygons with known area formulas.</li> <li>Students name coordinates that define a polygon with specific properties.</li> <li>Lesson 9:</li> <li>Students find the perimeter of irregular figures using coordinates to find the length of a side joining points with the same first coordinate or the same second coordinate.</li> <li>Students find the area enclosed by a polygon on the coordinate plane by composing or decomposing using polygon with specific properties.</li> </ul>	Topic B: Polygons on the Coordinate Plane Lesson 7 Omit Lesson 8 Lesson 9 Lesson 10 For Topic B, you may use the resources from Teacher Toolbox Lesson 23: Polygons in the Coordinate Plane for review, remediation, and/or assessment to meet the needs of your students. Mid-Module 5 Assessment & Review of Assessment (Complete by 2/15/19) Additional Resources: These optional resources may be used for extension, enrichment and/or additional practice, as needed. Illustrative Math: Polygons in the Coordinate Plane Task Illustrative Math: Walking the Block 6.G.A.3	

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Grade 6

TN STATE STANDARDS	CONTENT	INSTRUCTIONAL SUPPORT	VOCABULARY
Domain: Coomoto	<ul> <li>Lesson 10:</li> <li>Students determine distance, perimeter, and area in real-world contexts.</li> </ul>	Topic C: Volume of Pight Postongular	Vocabulary for Modulo 5
<ul> <li>Domain: Geometry</li> <li>Cluster: Solve real-world and mathematical problems involving area, surface area and volume.</li> <li>▶ 6.G.A.2: Find the volume of a right rectangular prism with fractional edge lengths by packing it with unit cubes of the appropriate unit fraction edge lengths, and show that the volume is the same as would be found by multiplying the edge lengths of the prism. Know and apply the formulas V = lwh and V = Bh where B is the area of the base to find volumes of right rectangular prisms with fractional edge lengths in the context of solving real-world and mathematical problems.</li> </ul>	<ul> <li>Essential Question(s):</li> <li>How is the formula for the area of rectangles used in finding the volume of rectangular prisms?</li> <li>What are two ways to find the volume of a rectangular prism?</li> <li>Topic C Objectives:</li> <li>Lesson 11 <ul> <li>Students extend their understanding of the volume of a right rectangular prism with integer side lengths to right rectangular prisms with fractional side lengths. They apply the formula VV = U · ww · h to find the volume of a right rectangular prism and use the correct volume units when writing the answer.</li> <li>Lesson 12 </li> <li>Students extend the volume formula for a right rectangular prism to the formula VV = Area of base · height. They understand that any face can be the base.</li> <li>Lesson 13 </li> <li>Students develop, understand, and apply formulas for finding the volume of right rectangular prisms and cubes.</li> </ul> </li> </ul>	<ul> <li>Topic C: Volume of Right Rectangular Prisms</li> <li>Lessons 11-12, Combine</li> <li>Suggestions for combining <ul> <li>Lesson 11 - Examples 1&amp;2,</li> <li>Students then complete the station exercises from Lesson 12, and when finished, complete the Lesson 11 exercises.</li> </ul> </li> <li>Lesson 13 Lesson 14</li> <li>For Topic C, you may use the resources from Teacher Toolbox Lesson 25: Volume for review, remediation, and/or assessment to meet the needs of your students.</li> <li>Additional Resources: These optional resources may be used for extension, enrichment and/or additional practice, as needed.</li> <li>Illustrative Math: Computing Volume Progression 1</li> <li>Illustrative Math: Computing Volume Progression 2</li> <li>Illustrative Math: Computing Volume</li> <li>Progression 3</li> <li>Illustrative Math: Computing Volume</li> </ul>	Vocabulary for Module 5 Altitude and Base of a Triangle, Cube, Hexagon, Line Perpendicular to a Plane, Net, Parallel Planes, Pentagon, Right Rectangular Prism, Surface of a Prism, Triangular Region Familiar Terms and Symbols for Module 5: Angle, Area, Length of a Segment, Parallel, Parallelogram, Perimeter, Perpendicular, Quadrilateral, Rectangle, Segment, Square, Trapezoid, Triangle, Volume

Major Work

Supporting Work



# **Curriculum and Instruction – Mathematics**

Grade 6

TN STATE STANDARDS	CONTENT	INSTRUCTIONAL SUPPORT	VOCABULARY
	determine the volume of composite solid figures in real-world contexts.	Progression 4	
	<ul> <li>Students apply volume formulas to find missing volumes and missing dimensions.</li> </ul>		
Domain: Geometry	Essential Question(s):	Topic D: Nets and Surface Area	
Cluster: Solve real-world and mathematical	<ul> <li>How does the change in height affect the</li> </ul>		
problems involving area, surface area and	volume or surface area of a prism?	Lesson 15	
volume.	<ul> <li>How can a net be used to find the surface</li> </ul>	Lesson 16	
	area of a pyramid, rectangular or triangular	Lesson 17	
6.G.A.2: Find the volume of a right	prism?	Lesson 18 (Make connections to using nets to	
rectangular prism with fractional edge	<ul> <li>Why are nets used to find the surface area</li> </ul>	calculate SA for some of the examples and	
lengths by packing it with unit cubes of the	of a pyramid, rectangular or triangular	exercises.)	
show that the volume is the same as	prism?	Lesson 19	
would be found by multiplying the edge	Tania D. Objectivezy	Tax Taxia Davis mercure the second	
lengths of the prism. Know and apply the	Topic D'Objectives.	For Topic D, you may use the resources	
formulas $V = Iwh$ and $V = Bh$ where B is	Lesson 15:	Surface Area for review remediation	
the area of the base to find volumes of	<ul> <li>Students use absolute value to determine</li> </ul>	and/or assessment to meet the needs of	
right rectangular prisms with fractional	Students construct three-dimensional	vour students.	
edge lengths in the context of solving real-	figures through the use of nets. They		
world and mathematical problems.	determine which nets make specific solid	End of Module 5 Assessment & Review of	
	figures and determine if nets can or cannot	Assessment	
<b>6.G.A.4:</b> Represent three-dimensional	make a solid figure.	(Complete by 3/1/19)	
and triangles, and use the nets to find the	Lesson 16:		
surface area of these figures. Apply these	<ul> <li>Students construct nets of three- dimensional abjects using the</li> </ul>	Reminder: It is recommended that teachers	
techniques in the context of solving real-	dimensional objects using the	begin preparing for Module 6 by 3/1/19.	
world and mathematical problems.	Lesson17:	Additional Resources	
	<ul> <li>Students use nets to determine the surface</li> </ul>	Illustrative Math: Volumes with Fractional Edge	
	area of three-dimensional figures.	Lengths	
	Lesson 18:	Illustrative Math: Banana Bread	
	<ul> <li>Students determine that a right rectangular</li> </ul>	Illustrative Math: Nets for Pyramids and Prisms	
	prism has six faces: top and bottom, front	6.G.A.4	
	and back, and two sides. They determine	Nets Lesson	

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# **Curriculum and Instruction – Mathematics**

Grade 6

TN STATE STANDARDS	CONTENT	INSTRUCTIONAL SUPPORT	VOCABULARY
	<ul> <li>that surface area is obtained by adding the areas of all the faces and develop the formula SA = 2lw + 2lh + 2wh.</li> <li>Students develop and apply the formula for the surface area of a cube as SA = 6s<sup>2</sup>.</li> <li>Lesson 19:</li> <li>Students determine the surface area of three-dimensional figures in real-world contexts.</li> <li>Students choose appropriate formulas to solve real-life volume and surface area problems.</li> </ul>		

Major Work

Supporting Work

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Grade 6

RESOURCE TOOLBOX					
The Resource Toolbox provides additional support for comprehension and mastery of grade-level skills and concepts. While some of these resources are imbedded in the map, the use of these categorized materials can assist educators with maximizing their instructional practices to meet the needs of all students.					
<b>NWEA MAP Resources:</b> <u>https://teach.mapnwea.org/assist/help_map/ApplicationHelp.htm#UsingTestResults/MAPReportsFinder.htm</u> - 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) <u>https://support.nwea.org/khanrit</u> - These Khan Academy lessons are aligned to RIT scores.					
Textbook Resources	Standards Support	Videos			
www.greatminds.org	TN Math Standards	Learn Zillion			
Eureka Math Grade 6 Remediation Guide	Gr. 6 Instructional Focus Document	Khan Academy			
	Achieve the Core				
	Edutoolbox				
Calculator Activities	Interactive Manipulatives	Additional Sites			
TI-83 & TI-84 Activities for Middle Grades	Glencoe Virtual Manipulatives	Embarc Online			
TI-Inspire for Middle Grades	National Library of Interactive Manipulatives	PBS: Grades 6-8 Lesson Plans			
CASIO Activities		Grade 6 Flip Book			
		(This book contains valuable resources that help develop the			
		intent, the understanding and the implementation of the state			
		standards.)			

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Quarter 3

Grade 6

Shelby County Schools – Grade 6 – January 2019					
Mon	Tue	Wed	Thu	Fri	
	<b>1</b> <u>New Year's Day</u>	<b>2</b> Teacher PD	<b>3</b> Teacher PD	<b>4</b> Administrative Day	
<b>7</b> <b>Q3 Begins</b> Recap any Module 4 lessons that were taught before Winter Break, as needed.	<b>8</b> Recap any Module 4 lessons that were taught before Winter Break, as needed.	<b>9</b> Recap any Module 4 lessons that were taught before Winter Break, as needed.	10 Module 4 Lessons 15	11	
<b>14</b> Mid-Module 4 Assessment (omit #1 & 2) & Review of Assessment Window	<b>15</b> Mid-Module 4 Assessment (omit #1 & 2) & Review of Assessment Window	16	17 Prepare for Module 5	18	
<b>21</b> <u>M L King's Day</u> (no school)	<b>22</b> Module 4 Topic G (Combine lessons 23- 25; omit 28 & 29)	23	24	<b>25</b> Module 4 Topic H (combine lessons 33 & 34; do lesson 30 after TNReady)	
28	29 End-of-Module 4 Assessment & Review of Assessment Window	<b>30</b> End-of-Module 4 Assessment & Review of Assessment Window	<b>31</b> Begin Module 5 (omit lessons 4 & 7)		



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Grade 6

Shelby County Schools – Grade 6 – February 2019					
Mon	Tue	Wed	Thu	Fri	
				1	
4	5	6	7	8	
11	12	13	14 Mid-Module 5 Assessment & Review of Assessment	15	
<b>18</b> <u>President's Day</u> Module 5 Topic C (omit lessons 12 & 18)	19	20	21	22	
25	26	27	28 End-of-Module 5 Assessment & Review of Assessment Window		

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Grade 6

Shelby County Schools – Grade 6 – March 2019					
Mon	Tue	Wed	Thu	Fri	
				1 End-of-Module 5 Assessment & Review of Assessment Window Prepare for Module 6	
4	5	6	7	8 Q3 Ends	
11	12	13	14	15	
Spring Break	Spring Break	Spring Break	Spring Break	Spring Break	
18	19	20	21	22	
25	26	27	28	29	

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