

Curriculum Coverage in Mathematics for the 2019-2020 School Year as Outlined by TN Standards

- TN Standards Major Work of the Grade (70%):
 - Multiply and divide fractions
 - Apply system of rational numbers
 - Understand ratio concepts
 - Use ratio reasoning
 - Arithmetic with algebraic expressions
 - Solve one-variable equations and inequalities
 - Represent relationships between independent/dependent variables
- Supporting (30%):
 - Compute fluently with multi-digit numbers
 - Solve area, surface area, and volume problems
 - Understand statistical variability
 - Summarize and describe distributions

TN Standards	Learning Outcomes	Instructional Focus	Content
Expressions and Equations			
6.EE.A.1 Write and evaluate numerical expressions involving whole number exponents	<p>I can use exponents to represent numbers.</p> <p>I can use the order of operations to simplify expressions with exponents.</p>	<p>Write numerical expressions that represent a real-world or mathematical context with whole number exponents and grouping symbols.</p> <p>Evaluate numerical expressions by applying the order of operations with whole number exponents.</p>	<p>Go Math Lesson 9.1 Exponents (pg. 237) Modify- Students need to be comfortable with whole number bases before introducing fraction or decimal bases. The lesson mixes fractions and there aren't any decimals included. 9.3 Order of Operations (pg. 249) Modify- Supplement. Students will need more error analysis practice, verbal and visual representations to create expressions and grouping symbols. This lesson only has one set of parentheses; students need to see brackets and multiple parentheses. Engage NY Task: Grade 6 Mathematics Module 4, Topic B (9.1) Grade 6 Mathematics Module 4, Topic B (9.3)</p>
6.EE.A.2 Write, read, and evaluate expressions in which variables stand for numbers	<p>I can model and write algebraic expressions.</p> <p>I can use order of</p>	<p>Write expressions that record operations with numbers and with variables given a verbal expression written in words.</p>	<p>Go Math Lesson 10.1 Modeling and Writing Expressions (pg. 261) Modify With EngageNY Tasks, Module 4, Topics D,C,F See Links below:</p>

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	operations to evaluate algebraic expressions.	<p>Identify and describe parts of an expression using appropriate mathematical vocabulary.</p> <p>Evaluate algebraic expressions involving positive rational numbers with whole-number exponents using properties of operations and order of operations.</p> <p>Substitute for the unknown (variable), when given a specific numerical value, to evaluate expressions including those that arise from formulas used in real-world problems.</p>	<p>10.2 Evaluating Expressions (pg. 269)</p> <p>Use Engage NY Task:</p> <p>Grade 6 Mathematics Module 4, Topic D (10.1)</p> <p>Grade 6 Mathematics Module 4, Topic C (10.2)</p> <p>Grade 6 Mathematics Module 4, Topic F (10.2)</p>
6.EE.A.3 Apply the properties of operations to generate equivalent expressions.	I can identify and write equivalent expressions.	<p>Choose multiple equivalent expressions when the simplification requires the application of multiple properties of operations.</p> <p>Generate equivalent expressions as a result of applying a single property of operations.</p>	<p>Go Math Lesson</p> <p>10.3 Generating Equivalent Expressions (pg. 275)</p> <p>Engage NY Task:</p> <p>Grade 6 Mathematics Module 4, Topic C (10.3)</p> <p>Grade 6 Mathematics Module 4, Topic D (10.3)</p>
6.EE.B.5 Understand solving an equation or inequality as a process of answering a question: which values from a specified set, if any, make the	I can determine whether a number is a solution of an equation.	TBD	<p>Go Math Lesson</p> <p>11.1 Writing Equations to Represent Situations (pg.297)</p> <p>Engage NY Task:</p>

<p>equation or inequality true? Use substitution to determine whether a given number in a specified set makes an equation or inequality true.</p>			<p>Grade 6 Mathematics Module 4, Topic G (11.1) Grade 6 Mathematics Module 4, Topic H (11.1)</p>
<p>6.EE.B.7 Solve real world and mathematical problems by writing and solving equations of the form $x+p=q$ and $px=q$</p>	<p>I can solve addition and subtraction equations. I can solve multiplication and division equations.</p>	<p>Solve real-world or mathematical problems by writing and solving equations of the form $x + p = q$ or $px = q$ when p, q, and x are all non-negative rational numbers.</p>	<p>Go Math Lesson 11.2 Addition and Subtraction Equations (pg. 303) Modify- Students will need to be able to explain the meaning of a variable; identify and interpret dependent and independent variables; these 2 lessons do not cover that very well. 11.3 Multiplication and Division Equations (pg. 311) Modify- The multiplication and division equations are not written with decimals; the IFD calls for one-step equations with fractions, zero, and decimals. Engage NY Task: Grade 6 Mathematics Module 4, Topic G (11.2 and 11.3) Grade 6 Mathematics Module 4, Topic H (11.2 and 11.3)</p>
<p>6.EE.B.8 Write an inequality of the form x is greater than c or x is less than c to represent a constraint or condition in a real world or mathematical problem. Recognize that inequalities of the form x is greater than c or x is less than c have infinitely many solutions.; represent solutions of such inequalities on number line diagrams.</p>	<p>I can use inequalities to represent real-world constraints or conditions.</p>	<p>Write an inequality of the form $x > c$, $x < c$, $x > c$, or $x < c$ to represent a constraint or condition in a real- world or mathematical situation. Graph an inequality in the form $x > c$, $x < c$, $x > c$, or $x < c$ on a number line.</p>	<p>Go Math Lesson 11.4 Writing Inequalities (pg. 319) Engage NY Task: Grade 6 Mathematics Module 4, Topic G (11.4) Grade 6 Mathematics Module 4, Topic H (11.4)</p>



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<p>6.NS.C.6 Understand a rational number as a point on the number line. Extend number line diagrams and coordinate axes familiar from previous grades to represent points on the line and in the plane with negative number coordinates.</p>	<p>I can understand signs of numbers in ordered pairs as indicating locations in quadrants of the coordinate plane.</p>	<p>Describe positive and negative numbers as indicating opposite directions relative to 0 on the number line and explain the meaning of 0 in mathematical contexts. Locate positive and negative rational numbers on a horizontal and vertical number line. Recognize the opposite of the opposite of a number as the number itself. Identify and locate points described by ordered pairs of positive and negative rational numbers on a coordinate plane.</p>	<p>Go Math Lesson: 12.1 Graphing on the Coordinate Plane (pg. 331) Engage NY Task: <u>Grade 6 Mathematics Module 3, Topic C</u> (12.1)</p>
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<p>6.EE.C.9 Use variables to represent two quantities in a real-world problem that change in relationship to one another.</p>	<p>I can identify independent and dependent variables from tables and graphs.</p> <p>I can use an equations to show a relationship between two variables.</p> <p>I can use verbal descriptions, tables, and graphs to represent algebraic relationships.</p>	<p>Write a two-variable equation in the form $y = x + p$ and $y = px$ to represent a real-world problem and then analyze the relationship between the variables using graphs and tables.</p>	<p>Go Math Lesson</p> <p>12.2 Independent and Dependent Variables in Tables and Graphs (pg. 337)</p> <p>12.3 Writing Equations from Tables (pg. 345)</p> <p>12.4 Representing Algebraic Relationships in Tables and Graphs (pg. 351)</p> <p>Modify- 12.3 &12.4 -</p> <p>Also Engage NY Task:</p> <p>Grade 6 Mathematics Module 4, Topic H (12.2, 12.3, and 12.4)</p>
Geometry			
<p>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; apply these techniques in the context of solving real-world and mathematical problems.</p>	<p>I can find the area of parallelograms, rhombuses, and trapezoids.</p> <p>I can find the area of a triangle.</p>	<p>Find the area of triangles, quadrilaterals, and polygons that can be decomposed into parts utilizing common area formulas.</p> <p>Find the area of polygons embedded in real-world and mathematical problems.</p>	<p>Go Math Lesson</p> <p>13.1 Area of Quadrilaterals (pg. 371)</p> <p>13.2 Area of Triangles (pg. 377)</p> <p>Engage NY Task:</p> <p>Grade 6 Mathematics Module 5, Topic A (13.1 and 13.2)</p>