

## Additional Resources by Standard

### Grade 4 – Mathematics

#### Legend or Key

<b>FS</b> = Fluency support from EngageNY	<b>LZ</b> = <a href="#">LearnZillion</a>
<b>FL</b> = Finish Line	<b>KA</b> = <a href="#">Khan Academy</a>
<b>IM</b> = <a href="#">Illustrative Mathematics</a>	<b>EMB</b> = <a href="#">Embarc, Building Conceptual Understanding and Fluency Through Games</a>

Standards		EngageNY Module(s)	Resources <i>for Differentiation, Reinforcement, Intervention, Enrichment, Homework, etc.</i>	
M	4.NBT.1	1	LZ: <a href="#">Understand Relationships Between Digits and Their Place Value</a> KA: <a href="#">Finding Place Value</a> KA: <a href="#">Place Value when Multiplying and Dividing by Ten</a> YouTube-Math Lobster-The Number to the Left is Ten Times KA: <a href="#">Multiplying by 10, 100, 1,000</a> FL: Unit 1, Lesson 1, Whole Number Place Value, p. 8	KA: <a href="#">Multiplying 10's</a> KA: <a href="#">Multiplying 1 Digit Numbers by Multiples of 10</a>
M	4.NBT.2	1	LZ: <a href="#">Compare Numbers Using the Symbols &lt;, &gt; and =</a> KA: <a href="#">Comparing Place Values</a> KA: <a href="#">Comparing Multi-digit Numbers</a> KA: <a href="#">Writing a Number in Expanded Form</a> KA: <a href="#">Writing a Number in Standard Form</a> LZ: <a href="#">Read and Write Numbers in Word Form</a> LZ: <a href="#">Expanded Form</a> LZ: <a href="#">Compare and Convert Metric Units of Length</a> FL: Unit 1, Lesson 2, Comparing Whole Numbers, p. 12 EMB: Corn Shucks, p.14	

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			<p>EMB: Digit Ski, p.16</p> <p>EMB: Appalachian Steps, p. 18</p>
M	4.NBT.3	1	<p>LZ: <u>Round Numbers to the Specified Place using a Number Line</u></p> <p>FL: Unit 1, Lesson 3, Rounding Whole Numbers, p. 16</p> <p>KA: <a href="#">Rounding Numbers to the Nearest Ten</a></p> <p>KA: <a href="#">Rounding Whole Numbers to the Nearest Hundred</a></p> <p>KA: <a href="#">Rounding Whole Numbers to the Nearest Thousand</a></p> <p>EMB: Becca's Battle, p. 20</p> <p style="text-align: right;">LZ: <u>Round in Real-Life Situations</u></p>
M	4.NBT.4	1	<p>LZ: <u>Add using the Standard Algorithm</u></p> <p>LZ: <u>Subtract using the Standard Algorithm</u></p> <p>KA: <a href="#">Multi-digit Addition using the Place Value Chart</a></p> <p>KA: <a href="#">Multi-digit Subtraction using the Place Value Chart</a></p> <p>FL: Unit 2, Lesson 1, Adding Whole Numbers, p.32</p> <p>FL: Unit 2, Lesson 2, Subtracting Whole Numbers, p. 36</p> <p>EMB: Climbing Chimney Rock, p.23</p> <p>EMB: Valuable Digits!!, p. 24</p> <p><a href="#">Number Talk, Multi-Digit Subtraction</a></p>
M	4.NBT.5	3 and 7	<p>KA: <a href="#">Multiplication using the Area Model</a></p> <p>KA: <a href="#">Multiplication using the Area Model and Related the Standard Algorithm</a></p> <p>FL: Unit 2, Lesson 3, Multiplying Whole Numbers, p. 40</p>

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M	4.NBT.6	3	KA: <a href="#">Division using Understanding of Place Value</a> KA: <a href="#">Division using an Area Model</a> FL: Unit 2, Lesson 4, Dividing Whole Numbers, p. 44 EMB: Race to the Resort, p.28 EMB: Mount Mitchell Rock, p. 29 EMB: Rockingham Remainders, p. 30 EMB: The Great Raleigh Road Race, p.32
	4.MD.1	2	LZ: <a href="#">Compare and Convert Metric Units of Length</a> LZ: <a href="#">Compare and Convert Metric Units of Weight</a> <a href="#">Deep Sea Measuring</a> <a href="#">Clowning around with Jake Conversions</a> FL: Unit 7, Lesson 1, Customary Units of Measurement, p. 128 FL: Unit 7, Lesson 2, Metric Units of Measurement, p. 132 FL: Unit 7, Lesson 3, Measurement Conversions, p. 136 EMB: Standard Measure Up, p.66 EMB: Metric Measure Up, p. 70
	4.MD.2	2,5,6	<a href="#">It's about Time</a> KA: <a href="#">Estimating Time Differences</a> FL: Measurement Word Problems, p. 140
	4.MD.3	3	LZ: <a href="#">Use the Standard Formula for Area</a> LZ: <a href="#">Find the Perimeter of a Rectangle</a> LZ: <a href="#">Use Area Models to Find the Area of Rectangles</a> KA: <a href="#">Area and Perimeter, Dog Pen</a> KA: <a href="#">Area and Perimeter, Table</a> KA: <a href="#">Area and Perimeter - Comparing Areas</a> FL: Unit 8, Lesson 1, Perimeter of Rectangles,

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			p. 152 FL: Unit 8, Lesson 2, Area of Rectangles, p. 156 EMB: I Get Around!, p.74 EMB: Raging Rectangles, p.77
4.MD.4	5		LZ: <a href="#">Solve Problems by Interpreting Data on a Line Plot</a> LZ: <a href="#">Create a Line Plot with Fractions of a Unit with Like Denominators</a> KA: <a href="#">Reading a Line Plot with Fractions</a> FL: Unit 7, Lesson 5, Measurement Data, p. 144
4.MD.5	4		<a href="#">Recognize Angles, Geometric Shapes</a> LZ: <a href="#">Measuring an Angle Using Fractions of a Circle</a> FL: Unit 9, Lesson 2, Angle Measure, p. 168
4.MD.6	4		<a href="#">4.MD.6 Variety of Resources</a> <a href="#">Measuring Angles</a> <a href="#">Camping Out, Estimating and Measuring Angles</a> <a href="#">Amazing Angles</a>
4.MD.7	4		<a href="#">Adding Angles</a> LZ: <a href="#">Decompose Angles</a>
4.G.1	4		LZ: <a href="#">Draw Points, Lines and Line Segments</a> <a href="#">The Geometry of Letters, What's the Point,</a> <a href="#">Measuring Angles</a> <a href="#">Color the Vocabulary</a> <a href="#">Angling Around Town (Advanced)</a> <a href="#">Determine an Angle Visually</a> <a href="#">Identifying an Angle Using a Right Angle</a> LZ: <a href="#">Draw Parallel and Perpendicular Lines</a> KA: <a href="#">Intro. to Geometry Vocab.</a>

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			<p>KA: <a href="#">Lines, Line Segments and Rays</a></p> <p>KA: <a href="#">Intro. to Parallel and Perpendicular Lines</a></p> <p>KA: <a href="#">Drawing Parallel Lines</a></p> <p>FL: Unit 9, Lesson 1, Points, Lines, Rays, and Angles, p. 164</p> <p>FL: Unit 9, Lesson 3, Parallel and Perpendicular Lines, p. 172</p>
4.G.2	4		<p>LZ: <a href="#">Classify Two-Dimensional Figures using Their Lines and Angles</a></p> <p><a href="#">Variety of Resources</a></p> <p>LZ: <a href="#">Analyze and Classify Triangles</a></p> <p><a href="#">Classify Quadrilaterals</a></p> <p>KA: <a href="#">Intro. to Angles</a></p> <p>KA: <a href="#">Naming Angles</a></p> <p>KA: <a href="#">Measuring Angles Using Degrees</a></p> <p>KA: <a href="#">Measuring Angles Using a Protractor</a></p> <p>KA: <a href="#">Measuring Angles Using a Protractor, 2</a></p> <p>KA: <a href="#">Constructing Angles</a></p> <p>KA: <a href="#">Acute, Obtuse and Right Angles</a></p> <p>KA: <a href="#">Classifying Triangles</a></p> <p>KA: <a href="#">Classifying Triangles by Angles</a></p> <p>KA: <a href="#">Quadrilateral Properties</a></p> <p>KA: <a href="#">Classifying Shapes by Lines and Angles</a></p> <p>FL: Unit 9, Lesson 4, Classifying Shapes</p>
4.G.3	4		<p><a href="#">Folded Fun</a></p> <p><a href="#">Variety of Symmetry Worksheets</a></p> <p>KA: <a href="#">Intro. to Symmetry</a></p> <p>KA: <a href="#">Identifying Symmetrical figures</a></p> <p>FL: Unit 9, Lesson 5, Lines of Symmetry</p>

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4.NF.1	5	<p>LZ: <a href="#">Recognize Equivalent Fractions using Area Models</a></p> <p>LZ: <a href="#">Recognize Equivalent Fractions using Number Lines</a></p> <p>LZ: <a href="#">Generate Equivalent Fractions using Multiplication and Division</a></p> <p>KA: <a href="#">Equivalent Fractions</a></p> <p>KA: <a href="#">More on Equivalent fractions</a></p> <p>FL: Unit 4, Lesson 1, Equivalent Fractions, p. 72</p> <p>EMB: Tangram Challenges, p.33</p>
4.NF.2	5	<p>LZ: <a href="#">Compare Fractions to Benchmark Fractions</a></p> <p>LZ: <a href="#">Dog Walking - Connected Solution Paths</a></p> <p>KA: <a href="#">Comparing fractions with a Tape Diagram</a></p> <p>KA: <a href="#">Comparing Fractions on a Number Line</a></p> <p>KA: <a href="#">Comparing Fractions with Fraction Models</a></p> <p>FL: Unit 4, Lesson 2, Comparing Fractions, p. 76</p> <p>EMB: Multiplying and Comparing Fractions Game, p.41</p>
4.NF.3	5	<p><u>Add and Subtract Fractions with Like Denominators</u></p> <p><u>Adding Fractions with the Same Unit Denominator</u></p> <p><u>Subtracting Fractions with the Same Unit Denominator</u></p> <p>LZ: <a href="#">Insect Olympics-Add and Subtract Fractions in a Word Problem</a></p> <p>LZ: <a href="#">Write fractions Greater Than One as Mixed Numbers</a></p> <p>KA: <a href="#">Decomposing Fractions</a></p> <p>KA: <a href="#">Decomposing Mixed Numbers</a></p> <p>KA: <a href="#">Subtracting Fractions</a> with Like Denominators</p> <p>FL: Unit 4, Lesson 3, Adding and Subtracting Fractions, p. 80</p>

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			<p>FL: Unit 4, Lesson 4, Adding and Subtracting Mixed Numbers, p. 84</p> <p>FL: Unit 4, Lesson 6, Word Problems with Fractions, p. 92</p> <p>EMB: Find the Fraction Model, p.44</p> <p>EMB: Fraction “Close To” Game, p. 46</p> <p>EMB: Zach’s Zoo Adventure, p.49</p>
	4.NF.4	5	<p>LZ: <a href="#">Multiply a Whole Number and a Fraction Using a Number Line</a></p> <p>LZ: <a href="#">Solve Word Problems by Creating and Interpreting Line Plots</a></p> <p>KA: <a href="#">Fraction Word Problems - Pizza</a></p> <p>KA: <a href="#">Fraction Word Problem - Spider Eyes</a></p> <p>KA: <a href="#">Fraction Word Problem - Piano</a></p> <p>KA: <a href="#">Multiplying Unit Fractions by a Whole Number</a></p> <p>KA: <a href="#">Multiplying Fractions - Word Problem</a> – Milk</p> <p>KA: <a href="#">Multiplying Fractions - Word Problem</a> - Movies</p> <p>KA: <a href="#">Multiplying Fractions - Word Problem</a></p> <p>FL: Unit 4, Lesson 5, Multiplying a fraction by a whole number, p. 88</p>
	4.NF.5	6	<p>KA: <a href="#">Intro. to Decimals</a></p> <p>KA: <a href="#">Decimals as Words</a></p> <p>KA: <a href="#">Writing Decimal Numbers Shown in Grids</a></p> <p>KA: <a href="#">Adding Fractions with 10 and 100 as Denominators</a></p> <p>KA: <a href="#">Equivalent Fractions with Denominators of 10 and 100</a></p> <p>FL: Unit 5, Lesson 1, Decimal Fractions, p. 100</p> <p>EMB: Fraction Go Fish, p.49</p>
	4.NF.6		<p>LZ: <a href="#">Convert Fractions into Decimals to the Tenths place</a></p>

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		6	<p>LZ: Convert Decimals to Fractions to the Hundredths Place Using Visual Aids  Write Money Amounts as Decimals  KA: <a href="#">Rewriting Fractions as Decimals, Denominators of 10 and 100</a>  KA: <a href="#">Writing a Number as a Fraction and a Decimal</a>  KA: <a href="#">Writing Decimals as Fractions - Review</a>  FL: Unit 5, Lesson 2, Decimal Notation, p. 104</p>
	4.NF.7	6	<p>LZ: <a href="#">Compare Two Decimals to the Hundredths Place using Fraction Models</a>  KA: <a href="#">Comparing Decimals</a>  FL: Unit 5, Lesson 3, Comparing Decimals, p. 108  EMB: Corn Shucks, p. 14  EMB: Deci-Mill Dunk, p.63  EMB: Deci-Moves, p.64</p>
	4.OA.1	1,3,7	<p><a href="#">Multiplication Statements</a>  FL: Unit 3, Lesson 2, Solving One-step Word Problems, p. 56  FL: Unit 3, Lesson 3, Solving Two-step Word Problems, p. 60</p>
	4.OA.2	3,7	<p><a href="#">Word Problems- Easy</a>  <a href="#">Word Problems- Medium</a>  <a href="#">Word Problems- Hard</a>  <a href="#">Word Problems- Estimation</a>  EMB: Four Quotients, p. 26</p>
	4.OA.3	3,7	<p><a href="#">Rounding</a>  <a href="#">Word Problem using Variable Expressions</a>  KA: <a href="#">Interpreting Remainders</a>  KA: <a href="#">Multi-step Word Problems</a>, Division  KA: <a href="#">Multi-step Word Problems</a>, Multiplication</p>



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			FL: Unit 3, Lesson 1, Representing Word Problems, p. 52 FL: Unit 3, Lesson 4, Estimation, p. 64
	4.OA.4	3	KA: <a href="#">Finding Factors</a> KA: <a href="#">Finding Factors and Multiples</a> KA: <a href="#">Prime Numbers</a> KA: <a href="#">Prime and Composite Numbers</a> KA: <a href="#">Factors and Multiples, Days of the Week Task</a> FL: Unit 1, Lesson 4, Factors and Multiples, p. 20 FL: Unit 1, Lesson 5, Prime and Composite Numbers, p.24
	4.OA.5	5	KA: <a href="#">Math Patterns: Table</a> KA: <a href="#">Math Patterns: Toothpicks</a> FL: Unit 6, Lesson 1, Number Patterns, p. 116 FL: Unit 6, Lesson 2, Shape Patterns, p. 120 EMB: A-Mazing Functions, p. 2 EMB: Carolina Clip-It, p. 5 EMB: Charlotte Speedway Race, p.6 EMB: Multiplication Cover-Up, p. 7
	<b>HOT Tasks</b>		<p><i>“Higher order questions are those that the students cannot answer just by simple recollection or by reading the information “verbatim” from the text. Higher-order questions put advanced cognitive demand on students. They encourage students to think beyond literal questions.</i></p> <p><b>Rabbit Costumes</b>  <a href="http://www.insidemathematics.org/assets/common-core-math-tasks/rabbit%20costumes.pdf">http://www.insidemathematics.org/assets/common-core-math-tasks/rabbit%20costumes.pdf</a>            Content Standards: 6.NS.1            Standards of Mathematical Practice: MP.2, MP.7</p>

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			<p><i>Higher-order questions promote critical thinking skills because these types of questions expect students to apply, analyze, synthesize, and evaluate information instead of simply recalling facts.”</i></p> <p><a href="https://dataworks-ed.com/blog/2014/10/higher-order-questions/">https://dataworks-ed.com/blog/2014/10/higher-order-questions/</a></p>
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