



**JSD 251 Math Curriculum
Third Grade – Spring 2016**

Month or Days	Materials & Resources	Standard(s) and Topics	Learning Activities	Task Analysis	Vocabulary	Assessment	Emphasis
<p>days include review and assessment</p>	<p>Envision Math: Common Core: 3rd Grade</p>	<p>Common Core State Standards: Math</p>	<p>Learning activities can be found in the Envision Math Teacher's Edition.</p> <p>Work in PLC to create fluency practice for all operations. Use center activities.</p>	<p>Task analysis is the analysis of how a task is accomplished, including a detailed description.</p>	<p>Vocabulary will be on the list under the topic where it is first introduced. It can and should, however, be used and reinforced throughout the entire year and <i>always taught in context.</i></p>	<p>Assessments should be common among building grade level teams.</p> <p>Work in PLC to create Pretest and Posttest.</p>	<p>Major Clusters Students should spend the large majority of their time on major clusters.</p> <p>Supporting Clusters These should be used to enhance the work of the major clusters.</p> <p>Additional Clusters These clusters should not be neglected but less time may be spent on them.</p>



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11 days	Topic 11	<p>Domain Geometry</p> <p>Cluster Reason with shapes and their attributes.</p> <p>Standards 3.G.1, 3.G.2</p> <p>See also fractions.</p> <p>2 dimensional shapes and their attributes</p> <p>Recommend review of place value up through 999 in preparation for Topic 1 throughout this topic.</p>	<ul style="list-style-type: none"> • Think Through Math Placement test • Envision math online topic test. • Have students watch videos assigned based on what questions were missed. • Computer resources per building 	See Envision Teacher Manual pg. 273A for math background	plot, line, line segment, intersecting lines, parallel lines, ray, angle, vertex, right angle, perpendicular, acute angle, obtuse angle, polygon, side, vertex, diagonal, triangle, quadrilateral, pentagon, hexagon, octagon, decagon, equilateral triangle, isosceles triangle, scalene triangle, right triangle, acute triangle, obtuse triangle, trapezoid, parallelogram, rectangle, rhombus, square	Use Envision Math assessments for resource for all topics.	<p>Supporting cluster</p> <p>These should be used to enhance the work of major clusters.</p>



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10 days	Topic 1	<p>Domain Number and Operations in Base Ten</p> <p>Cluster Use place value understanding and properties of operations to perform multi-digit arithmetic.</p> <p>Standards 3.NBT.1, 3.NBT.2 cover 3.NBT.2</p> <p>Numeration (Place Value)</p>	<ul style="list-style-type: none"> Think Through Math Envision math online topic test. Have students watch videos assigned based on what questions were missed. Computer resources per building 	See Envision Teacher Manual pg. 2G for math background	digits, place value, standard form, expanded form, word form, period, compare, order	Use Envision Math assessments for resource for all topics.	<p>Additional Cluster</p> <p>These clusters should not be neglected, but less time may be spent on them.</p>
11 days	Topic 2	<p>Domain Number and Operations in Base Ten</p> <p>Cluster Use place value understanding and properties of operations to perform multi-digit arithmetic.</p> <p>Cluster Solve problems involving the four operations, and identify and explain patterns in arithmetic.</p> <p>Standards 3.NBT.1, 3.NBT.2, 3.OA.8, 3.OA.9</p> <p>Number Sense Addition and Subtraction</p> <p>Properties of Addition</p> <p>Rounding and Estimation</p>	<ul style="list-style-type: none"> Think Through Math Envision math online topic test. Have students watch videos assigned based on what questions were missed. Computer resources per building 	See Envision Teacher Manual pg. 29A for math background	addends, sum, commutative property of addition, associative property of addition, identity property of addition, difference, fact family, round, estimate, compatible numbers, equation	Use Envision Math assessments for resource for all topics.	<p>Major cluster</p> <p>Students should spend a majority of time on major clusters.</p>



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12 days	Topic 3	<p>Domain Number and Operations in Base Ten</p> <p>Cluster Use place value understanding and properties of operations to perform multi-digit arithmetic.</p> <p>Standards 3.NBT.1, 3.NBT.2, 3.OA.8</p> <p>Using Place value to add and subtract up to 3 digit numbers</p> <p>Subtract across 0</p>	<ul style="list-style-type: none"> Think Through Math Envision math online topic test. Have students watch videos assigned based on what questions were missed. Computer resources per building 	See Envision Teacher Manual pg. 63A for math background	No new vocabulary	Use Envision Math assessments for resource for all topics.	<p>Major cluster</p> <p>Students should spend a majority of time on major clusters.</p>
7 days	Topic 4	<p>Domain Number and Operations in Base Ten</p> <p>Cluster Use place value understanding and properties of operations to perform multi-digit arithmetic.</p> <p>Standards 3.NBT.1, 3.NBT.2, 3.OA.8</p> <p>Meaning of Multiplication</p> <p>Repeated addition</p> <p>Arrays</p> <p>Properties of multiplication</p>	<ul style="list-style-type: none"> Think Through Math Envision math online topic test. Have students watch videos assigned based on what questions were missed. Computer resources per building 	See Envision Teacher Manual pg. 97A for math background	multiplication, factors, product, array, commutative property of multiplication	Use Envision Math assessments for resource for all topics.	<p>Major cluster</p> <p>Students should spend a majority of time on major clusters.</p>



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9 days	Topic 5	<p>Domain Operations and Algebraic Thinking</p> <p>Cluster Represent and solve problems involving multiplication and division.</p> <p>Cluster Multiply and divide within 100.</p> <p>Cluster Solve problems involving the four operations, and identify and explain patterns in arithmetic.</p> <p>Cluster Use place value understanding and properties of operations to perform multi-digit arithmetic.</p> <p>Standards 3.OA.3, 3.OA.7, 3.OA.8, 3.OA.9, 3.NBT.3</p> <p>Multiplication Facts: Use Patterns</p> <p>x, 0, 1, 2, 5, 9, 10</p> <p>x multiples of 10</p>	<ul style="list-style-type: none"> Think Through Math Envision math online topic test. Have students watch videos assigned based on what questions were missed. Computer resources per building 	See Envision Teacher Manual pg. 115A for math background	<p>multiples</p> <p>identity property of multiplication</p> <p>zero property of multiplication</p>	Use Envision Math assessments for resource for all topics.	<p>Major cluster</p> <p>Students should spend a majority of time on major clusters.</p>
11 days	Topic 6	<p>Domain Operations and Algebraic Thinking</p> <p>Cluster Represent and solve problems involving multiplication and division.</p> <p>Cluster Understand properties of multiplication and the relationship between multiplication and division.</p> <p>Cluster Solve problems involving the four operations, and identify and explain patterns in arithmetic.</p> <p>Standards 3.OA.3, 3.OA.5, 3.OA.8, 3.MD.7.c, 3.MD.8</p> <p>3.MD.7.c is included in center activities</p> <p>cover 3.OA.8</p> <p>Multiplication Facts: Using Known Facts</p> <p>distributive property</p> <p>x3, 4, 6, 7, 8</p> <p>multiply 3 factors</p>	<ul style="list-style-type: none"> Think Through Math Envision math online topic test. Have students watch videos assigned based on what questions were missed. Computer resources per building 	See Envision Teacher Manual pg. 139A for math background	<p>distributive property,</p> <p>associative property of multiplication</p>	Use Envision Math assessments for resource for all topics.	<p>Major cluster</p> <p>Students should spend a majority of time on major clusters.</p>



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8 days	Topic 7	<p>Domain Operations and Algebraic Thinking</p> <p>Cluster Represent and solve problems involving multiplication and division.</p> <p>Cluster Understand properties of multiplication and the relationship between multiplication and division.</p> <p>Cluster Solve problems involving the four operations, and identify and explain patterns in arithmetic.</p> <p>Standards 3.OA.2, 3.OA.3, 3.OA.4, 3.OA.6, 3.OA.9</p> <p>Meanings of Division</p> <p>division as sharing</p> <p>division as repeated subtracting</p>	<ul style="list-style-type: none"> Think Through Math Envision math online topic test. Have students watch videos assigned based on what questions were missed. Computer resources per building 	See Envision Teacher Manual pg. 169A for math background	division	Use Envision Math assessments for resource for all topics.	<p>Major Cluster</p> <p>Students should spend a majority of time on major clusters.</p>
11 days	Topic 8	<p>Domain Operations and Algebraic Thinking</p> <p>Cluster Represent and solve problems involving multiplication and division.</p> <p>Cluster Understand properties of multiplication and the relationship between multiplication and division.</p> <p>Cluster Multiply and divide within 100.</p> <p>Cluster Solve problems involving the four operations, and identify and explain patterns in arithmetic.</p> <p>Standards 3.OA.3, 3.OA.4, 3.OA.5, 3.OA.7, 3.OA.8</p> <p>Division Facts</p> <p>fact families</p>	<ul style="list-style-type: none"> Think Through Math Envision math online topic test. Have students watch videos assigned based on what questions were missed. Computer resources per building 	See Envision Teacher Manual pg. 189A for math background	dividend, divisor, quotient	Use Envision Math assessments for resource for all topics.	<p>Major cluster</p> <p>Students should spend a majority of time on major clusters.</p>



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10 days	Topic 9	<p>Domain Number and Operations—Fractions</p> <p>Cluster Develop understanding of fractions as numbers.</p> <p>Cluster Represent and solve problems involving multiplication and division.</p> <p>Standards 3.NF.1, 3.NF.2, 3.NF.2a, 3.NF.2b, 3.OA.3</p> <p>3.G.2</p> <p>Understanding Fractions</p> <p>locating fractions on a number line</p>	<ul style="list-style-type: none"> Think Through Math Envision math online topic test. Have students watch videos assigned based on what questions were missed. Computer resources per building 	See Envision Teacher Manual pg. 219A for math background	halves, thirds, fourths, fifths, sixths, eighths, tenths, twelfths, fraction, unit fraction, numerator, denominator, mixed numbers, benchmark fractions	Use Envision Math assessments for resource for all topics.	<p>Major cluster</p> <p>Students should spend a majority of time on major clusters.</p>
11 days	Topic 10	<p>Domain Number and Operations—Fractions</p> <p>Cluster Develop understanding of fractions as numbers.</p> <p>Standards 3.NF.2, 3.NF.3, 3.NF.3.a, 3.NF.3.b, 3.NF.3.c, 3.NF.3.d</p> <p>Fraction Comparison and Equivalents</p> <p>Mixed numbers</p>	<ul style="list-style-type: none"> Think Through Math Envision math online topic test. Have students watch videos assigned based on what questions were missed. Computer resources per building 	See Envision Teacher Manual pg. 243A for math background	equivalent fractions, simplest form	Use Envision Math assessments for resource for all topics.	<p>Major cluster</p> <p>Students should spend a majority of time on major clusters.</p>



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7 days	Topic 13	<p>Domain Measurement and Data</p> <p>Cluster Geometric measurement: recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.</p> <p>Standard 3.MD.8</p> <p>Finding Perimeter</p>	<ul style="list-style-type: none"> Think Through Math Envision math online topic test. Have students watch videos assigned based on what questions were missed. Computer resources per building 	See Envision Teacher Manual pg. 321A for math background	perimeter, mile	Use Envision Math assessments for resource for all topics.	<p>Major cluster</p> <p>Students should spend a majority of time on major clusters.</p>
12 days	Topic 14	<p>Domain Measurement and Data</p> <p>Cluster Geometric measurement: understand concepts of area and relate area to multiplication and to addition.</p> <p>Cluster Geometric measurement: recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.</p> <p>Standards 3.MD.5, 3.MD.5.a, 3.MD.5.b, 3.MD.6, 3.MD.7, 3.MD.7.a, 3.MD.7.b, 3.MD.7.c, 3.MD.7.d, 3.MD.8, 3.G.2</p> <p>Finding Area</p> <p>Same area-different perimeter</p> <p>area and the distributive property of multiplying</p>	<ul style="list-style-type: none"> Think Through Math Envision math online topic test. Have students watch videos assigned based on what questions were missed. Computer resources per building 	See Envision Teacher Manual pg. 339A for math background	area, square unit	Use Envision Math assessments for resource for all topics.	<p>Major cluster</p> <p>Students should spend a majority of time on major clusters.</p>



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7 days	Topic 15	<p>Domain Measurement and Data Cluster Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects. Standard 3.MD.2</p> <p>Units of Liquid, Volume, and Mass</p>	<ul style="list-style-type: none"> Think Through Math Envision math online topic test. Have students watch videos assigned based on what questions were missed. Computer resources per building 	See Envision Teacher Manual pg. 371A for math background	capacity, cup, pint, quarter, gallon, milliliter, liter, gram, kilogram, weight, ounce, pound, ton	Use Envision Math assessments for resource for all topics.	<p>Major cluster Students should spend a majority of time on major clusters.</p>
7 days	Topic 12	<p>Domain Measurement and Data Cluster Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects. Standard 3.MD.1</p> <p>Time to half hour, quarter hour, minute Elapsed time</p>	<ul style="list-style-type: none"> Think Through Math Envision math online topic test. Have students watch videos assigned based on what questions were missed. Computer resources per building 	See Envision Teacher Manual pg. 301A for math background	hour, half hour, quarter hour, minute, seconds, a.m., p.m., elapsed time	Use Envision Math assessments for resource for all topics.	<p>Major cluster Students should spend a majority of time on major clusters.</p>



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8 days	Topic 16	<p>Domain Measurement and Data Cluster Represent and interpret data. Standards 3.MD.3, 3.MD.4 3.MD.4 is covered briefly in lesson 16-2</p> <p>Data</p> <p>line plots bar graphs pictographs</p>	<ul style="list-style-type: none"> Think Through Math Envision math online topic test. Have students watch videos assigned based on what questions were missed. Computer resources per building 	See Envision Teacher Manual pg. 389A for math background	line plot, pictograph, key, bar graph, scale	Use Envision Math assessments for resource for all topics.	<p>Support cluster</p> <p>These should be used to enhance the work of major clusters.</p>
10 days	Stepping up to 4th Grade	<p>Purpose These Step-Up Lessons will help prepare students for the next grade. The lessons preview for students some important content from the next grade. These lessons are intended to be used at the end of the year.</p> <p>multiply 2 digit by 1</p> <p>divide 2 digit numbers</p> <p>add and subtract fractions</p> <p>fractions and decimals</p>				Use Envision Math assessments for resource for all topics.	<p>Support cluster</p> <p>These should be used to enhance the work of major clusters.</p>