



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

Month	Materials & Resources	Standard(s)	Learning Activities	Task Analysis	Vocabulary	Assessment	Emphasis
	Envision Math: Common Core: 5th Grade	Common Core State Standards: Math	Learning activities can be found in the Envision Math Teacher's Edition.	<p>Task analysis is the analysis of how a task is accomplished, including a detailed description.</p> <p>The link below will take you to videos that teach the math lesson for each day.</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>	Assessments should be common among building grade level teams	<p>Major Clusters</p> <p>Students should spend the large majority of their time on major clusters.</p> <p>Supporting Clusters</p> <p>These should be used to enhance the work of the major clusters.</p> <p>Additional Clusters</p> <p>These clusters should not be neglected but less time may be spent on them.</p>



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August & September	Topic 1: Place Value	<p>Topic 1 Domain: Number and Operations in Base Ten Cluster: Understand the place value system Standards: 5.NBT.1, 5.NBT.3, 5.NBT.3.a, 5.NBT.3.b</p>	Learning activities can be found in the Envision Math Teacher's Edition.	http://kcowleysd251.pbworks.com/w/page/95564462/Math	<p>Topic 1 Digits, Value, Standard Form, Expanded Form, Word Form Equivalent, Mixed Number, Tenths, Hundredths, Thousandths, Less Than, Greater Than, Inequality, Least, and Greatest, Composite Numbers, Prime Numbers, Function</p>	Topic Tests and Daily Assignments	<p>Topic 1 Major Cluster Students should spend the large majority of their time on major clusters.</p>
September & October	Topic 2: Adding and Subtracting Decimals	<p>Topic 2 Domain: Number and Operations in Base Ten Cluster: Understand the place value system. Perform operations with multi-digit whole numbers and with decimals to hundredths. Standards: 5.NBT.4, 5.NBT.7</p>	Learning activities can be found in the Envision Math Teacher's Edition.	http://kcowleysd251.pbworks.com/w/page/95564462/Math	<p>Topic 2 Commutative Property, Associative Property, Compatible Numbers, Compensation, Estimation (Two Methods: Rounding and Compatible Numbers) Rounding, Nearest Whole Number (One's Place), Decimal, Operation, Sums, Borrow, Carry, Differences, Hundreds Grid, Equation, Variable, Annex a 0, and Hidden Question</p>	Topic Tests and Daily Assignments	<p>Topic 2 Major Cluster Students should spend the large majority of their time on major clusters.</p>



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September & October	Topic 3: Multiplying Whole Numbers	<p>Topic 3 <u>Domain:</u> Number and Operations in Base Ten <u>Cluster:</u> Understand the place value system <u>Cluster:</u> Perform operations with multi-digit whole numbers and with decimals to hundredths. <u>Standards:</u> 5.NBT.2, 5.NBT.5, 5.NBT.6, 5.OA.1, 5.OA.2</p>	Learning activities can be found in the Envision Math Teacher's Edition.	http://kcowleystd251.pbworks.com/w/page/95564462/Math	<p>Topic 3 Commutative Property of Multiplication, Associative Property of Multiplication, Identity Property of Multiplication, Zero Property of Multiplication, Factor, Product, Determine, Multiple, Basic Fact, Compute, Underestimate, Overestimate, Exponent, Base Number, Power, Power of 10, squared, cubed, Exponential Notation, Expanded Form, Standard Form, Repeated Multiplication, Distributive Property, Expressions, Reasonable, Partial Products, Data, Regroup, Place Holder, and Repeated Addition</p>	Topic Tests and Daily Assignments	<p>Topic 3 Major Cluster</p> <p>Students should spend the large majority of their time on major clusters.</p>
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October & November	Topic 4: Dividing by 1-Digit Divisors	<p>Topic 4 Domain: Number and Operations in Base Ten Cluster: Perform operations with multi-digit whole numbers and with decimals to hundredths. Standards: 5.NBT., 5.OA.2</p>	Learning activities can be found in the Envision Math Teacher's Edition.	http://kcowleypbworks.com/w/page/95564462/Math	<p>Topic 4 Divide, Dividend, Divisor, Quotient, Repeated Subtraction, Inverse Operation, Equal Groups, Partition, Decompose, Diagram, Exchange, Model, Symbol, Symbolize, Square Root, and Calculation</p>	Topic Tests and Daily Assignments	<p>Topic 4 Major Cluster</p> <p>Students should spend the large majority of their time on major clusters.</p>
	Topic 5: Dividing by Two-Digit Divisors	<p>Topic 5 Domain: Number and Operations in Base Ten Cluster: Perform operations with multi-digit whole numbers and with decimals to hundredths. Standards: 5.NBT.6</p>	Learning activities can be found in the Envision Math Teacher's Edition.	http://kcowleypbworks.com/w/page/95564462/Math	<p>Topic 5 Same as Above</p>	Topic Tests and Daily Assignments	<p>Topic 5 Major Cluster</p> <p>Students should spend the large majority of their time on major clusters.</p>



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November	Topic 6: Multiplying Decimals	<p>Topic 6 Domain: Number and Operations in Base Ten Cluster: Understand the place value system. Cluster: Perform operations with multi-digit whole numbers and with decimals to hundredths. Standards: 5.NBT.1, NBT.2, 5.NBT.7</p>	Learning activities can be found in the Envision Math Teacher's Edition.	http://kcowleypbworks.com/w/page/95564462/Math	Topic 6 Number Sense	Topic Tests and Daily Assignments	<p>Topic 6 Major Cluster</p> <p>Students should spend the large majority of their time on major clusters.</p>
	Topic 7: Dividing Decimals	<p>Topic 7 Domain: Number and Operations in Base Ten Cluster: Understand the place value system. Cluster: Perform operations with multi-digit whole numbers and with decimals to hundredths. Standards: 5.NBT.1, NBT.2, 5.NBT.7</p>	Learning activities can be found in the Envision Math Teacher's Edition.	http://kcowleypbworks.com/w/page/95564462/Math	Topic 7 Decrease and Increase	Topic Tests and Daily Assignments	<p>Topic 7 Major Cluster</p> <p>Students should spend the large majority of their time on major clusters.</p>



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December	Topic 8: Numerical Expressions, Patterns, and Relationships	<p>Topic 8 Domain: Number and Operations in Base Ten Cluster: Understand the place value system Standards: 5.NBT.2, 5.NBT.7 Domain: Operations and Algebraic Thinking Cluster: Write and interpret numerical expressions. Standards: 5.OA.1, 5.OA.2, 5.OA.3</p>	Learning activities can be found in the Envision Math Teacher's Edition.	http://kcowleypbworks.com/w/page/95564462/Math	Topic 8 Variable, Vary, Algebraic Expression, Once, Twice, Double, Triple, Quantity, Represented, Translate, Mathematical Phrase, Order of Operations, Parentheses, Brackets, Evaluate, Terms, Value, Simplify the Expression, In-and-Out Table (Function Table), Sequences, Corresponding Terms, Translate Algebraic Expressions Into Words, Algebraic Rule	Topic Tests and Daily Assignments	<p>Topic 8 Additional Cluster</p> <p>These clusters should not be neglected but less time may be spent on them.</p>
January	Supplementary Lesson: G.C.F.		Teach how to find G.C.F. by making a list or using Prime Factorization				
	Topic 9: Adding and Subtracting Fractions	<p>Topic 9 Domain: Number and Operations - Fractions Cluster: Use equivalent fractions as a strategy to add and subtract fractions</p>	Learning activities can be found in the Envision Math Teacher's Edition.	http://kcowleypbworks.com/w/page/95564462/Math	Topic 9 equivalent fractions, simplest form, benchmark fraction, common multiple, least common multiple (LCM), common	Topic Tests and Daily Assignments	<p>Topic 9 Major Cluster</p> <p>Students should spend the large</p>



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<p>January</p>		<p>Standards: 5.NF.1, 5.NF.2</p>			<p>denominator, least common denominator (LCD), divisible, Prime Factorization</p>		<p>majority of their time on major clusters.</p>
	<p>Topic 10: Adding and Subtracting Mixed Numbers</p>	<p>Topic 10 Domain: Number and Operations - Fractions Cluster: Use equivalent fractions as a strategy to add and subtract fractions Standards: 5.NF.1, 5.NF.2</p>	<p>Learning activities can be found in the Envision Math Teacher's Edition.</p>	<p>http://kcowleystd251.pbworks.com/w/page/95564462/Math</p>	<p>Topic 10 proper fraction, improper fraction, number, correspond, reasonableness, simplify</p>	<p>Topic Tests and Daily Assignments</p>	<p>Topic 10 Major Cluster Students should spend the large majority of their time on major clusters.</p>
<p>Month</p>	<p>Materials & Resources</p>	<p>Standard(s)</p>	<p>Learning Activities</p>	<p>Task Analysis</p>	<p>Vocabulary</p>	<p>Assessment</p>	<p>Emphasis</p>
<p>February</p>	<p>Topic 11: Multiplying and Dividing Fractions and Mixed Numbers</p>	<p>Topic 11 Domain: Number and Operations - Fractions Cluster: Apply and extend previous understandings of multiplication and division to multiply and divide fractions Standards: 5.NF.3, 5.NF.4, 5.NF.4.a, 5.NF.4.b, 5.NF.5, 5.NF.5.a, 5.NF.5.b, 5.NF.6, 5.NF.7.a, 5.NF.7.b, 5.NF.7.c</p>	<p>Learning activities can be found in the Envision Math Teacher's Edition.</p>	<p>http://kcowleystd251.pbworks.com/w/page/95564462/Math</p>	<p>Topic 11 resize, scaling, reciprocal, related, product, estimation, comparisons, inverse relationship, value, area, formula, estimate, diagram, least to greatest, hidden question, submit, equation</p>	<p>Topic Tests and Daily Assignments</p>	<p>Topic 11 Major Cluster Students should spend the large majority of their time on major clusters.</p>



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February	Topic 12: Volume of Solids	<p>Topic 12 Domain: Measurement and Data</p> <p>Cluster: Geometric Measurement, understand concepts of volume and relate volume to multiplication and to addition</p> <p>Standards: 5.MD.3, 5.MD.3.a, 5.MD.3.b, 5.MD.4, 5.MD.5, 5.MD.5a, 5.MD.5.b, 5.MD.5.c</p>	Learning activities can be found in the Envision Math Teacher's Edition.	http://kcowleystd251.pbworks.com/w/page/95564462/Math	Topic 12 three dimensional shape, cube, edge, face, vertex (plural vertices), cone, cylinder, prism, pyramid, volume, cubic unit	Topic Tests and Daily Assignments	Topic 12 Major Cluster Students should spend the large majority of their time on major clusters.
Month	Materials & Resources	Standard(s)	Learning Activities	Task Analysis	Vocabulary	Assessment	Emphasis
March	Topic 13: Units of Measure	<p>Topic 13 Domain: Measurement and Data</p> <p>Cluster: Convert like measurement units within a given measurement system.</p> <p>Standards: 5.MD.1</p>	Learning activities can be found in the Envision Math Teacher's Edition.	http://kcowleystd251.pbworks.com/w/page/95564462/Math	Topic 13 customary units of weight, metric units of mass, customary units of length, convert, customary units of capacity, perimeter	Topic Tests and Daily Assignments	Topic 13 Supporting Cluster These should be used to enhance the work of the major clusters.



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March	Topic 14: Data	<p>Topic 14 <u>Domain:</u> Measurement and Data <u>Cluster:</u> Represent and interpret data <u>Standards:</u> 5.MD.2, 5.G.2</p>	Learning activities can be found in the Envision Math Teacher's Edition.	http://kcowleystd251.pbworks.com/w/page/95564462/Math	Topic 14 data, frequency table, line plot, outlier, sample, survey, frequency, range, graph, data points, break-squiggle, interval, labels, Pie Chart, Stem and Leaf Plot, Tree Diagram	Topic Tests and Daily Assignments	<p>Topic 14 Supporting Cluster</p> <p>These should be used to enhance the work of the major clusters.</p>
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April	Supplementary Lesson: Use coordinates to analyze geometric shapes.		<p>Use coordinates to analyze geometric shapes.</p> <p>www.ixl.com Math 5th grade Z.21- Area and Perimeter of figures on a grid Z.15- Perimeter Z.8- Reflection, Rotation, and Translation</p>				



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April	Topic 15: Classifying Plane Figures	Topic 15 <u>Domain:</u> Geometry <u>Cluster:</u> Classify two-dimensional figures into categories based on their properties <u>Standards:</u> 5.G.3, 5.G.4	Learning activities can be found in the Envision Math Teacher's Edition.	http://kcowleysd251.pbworks.com/w/page/95564462/Math	Topic 15 polygon, regular polygon, triangle, quadrilateral, pentagon, hexagon, octagon, equilateral triangle, isosceles triangle, scalene triangle, right angle, acute triangle, obtuse triangle, parallelogram, trapezoid, rectangle, rhombus, square, generalization, Circumference, Line Segment, Ray, Line, Radius, Scale Model, Similar Figures, Tessellation	Topic Tests and Daily Assignments	Topic 15 Additional Cluster These clusters should not be neglected but less time may be spent on them.
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May	Topic 16: Coordinate Geometry	Topic 16 <u>Domain:</u> Geometry <u>Cluster:</u> Graph points on the coordinate plane to solve real world and mathematical problems. <u>Standards:</u> 5.G.1, 5.G.2	Learning activities can be found in the Envision Math Teacher's Edition.	http://kcowleysd251.pbworks.com/w/page/95564462/Math	Topic 16 coordinate grid, x-axis, y-axis, origin, ordered pair, x-coordinate, y-coordinate	Topic Tests and Daily Assignments	Topic 16 Additional Cluster These clusters should not be neglected but less time may be spent on them.



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May	Step Up To 6th Grade Lessons	Domain: Operations and Algebraic Thinking Cluster: Analyze patterns and relationships. Standards: 5.OA.3	Learning activities can be found in the Envision Math Teacher's Edition.		Step Up to 6th Grade Lessons	Topic Tests and Daily Assignments	
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