

**CURRICULUM MAP – Middle School MATHEMATICS**  
**INSTRUCTIONAL SERVICES, KENOSHA UNIFIED SCHOOL DISTRICT NO. 1**

Teacher: \_\_\_\_\_ **Grade 7 Pre-algebra** School: \_\_\_\_\_

<b>TIME PER WEEK 300 MINUTES</b>	<b>QUARTER 1- 45 days</b>
<b>STANDARDS AND BENCHMARKS/SKILLS</b>	<p>A-1.7 I can use reasoning and logic to create questions, write problems, and explain answers.</p> <p>A-2.7 I can explain the answers to problems using correct math vocabulary, symbols, pictures, charts, tables, diagrams, graphs, and models.</p> <p>A-3.7 I can determine the reasonableness of answers.</p> <p>A-4.7 I can read and interpret mathematical text and other mathematical representations in real-world context (e.g., numbers, symbols, diagrams, and models).</p> <p>A-5.7 I can use a computer or a calculator as a problem-solving tool.</p> <p>B-1.7 I can represent rational numbers using words, numerals, number lines, geometric models, and scientific notation.</p> <p>B-18.7 I can compare and order integers and use symbols <math>&lt;</math>, <math>&gt;</math>, <math>=</math>, and <math>\neq</math>.</p> <p>B-19.7 I can add decimals and integers.</p> <p>B-20.7 I can subtract decimals and integers.</p> <p>B- 21.7 I can multiply decimals and integers.</p> <p>B-22.7 I can divide decimals and integers with decimal divisors.</p> <p>C-10.7 I can plot and identify ordered pairs on the coordinate plane.</p> <p>F-9.7 I can translate a mathematical equation from words into numbers and symbols.</p> <p>F -10.7 I can substitute integers for variables in an expression and find its value.</p> <p>F-12. 7 I can write a two-step single variable equation to represent a problem.</p> <p>F-13.7 I can solve a two-step single variable equation with rational coefficients.</p> <p>F-14.7 I can use the distributive property to evaluate an expression using integers.</p> <p>F-15.7 I can use the associative property to regroup numbers in adding or multiplying.</p> <p>F-16.7 I can use the commutative property to add or multiply integers.</p> <p>F-17.7 I can solve four-step order-of-operation, expressions using parentheses, exponents, and fraction symbols.</p> <p>*F-9.8 I can solve a multi-step linear equation with variables on both sides</p> <p>*F-10.8 I can solve single variable linear inequalities.</p>
<b>ASSESSMENT</b>	KUSD quarterly common assessment; quizzes; unit assessments, projects
<b>CONTENT TOPIC/THEME/UNIT</b>	<p>Chapter 1.1 – 1.8 Variables, Expressions, and Integers</p> <p>Chapter 2.1 – 2.7 Solving Equations</p> <p>Chapter 3.1 – 3.6 Multi-Step Equations and Inequalities</p>
<b>INSTRUCTIONAL MATERIAL</b>	Larson, <i>Pre-Algebra</i> , McDougal Littell, 2005 ISBN 0-618-25003-4
<b>TECHNOLOGY</b>	<p>Online book: <a href="http://www.classzone.com">www.classzone.com</a> (user name and password required)</p> <p>Online resources: <a href="http://www.classzone.com">www.classzone.com</a> (no registration required)</p>

**CURRICULUM MAP – Middle School MATHEMATICS**  
**INSTRUCTIONAL SERVICES, KENOSHA UNIFIED SCHOOL DISTRICT NO. 1**

Teacher: \_\_\_\_\_ **Grade 7 Pre-algebra** School: \_\_\_\_\_

<b>TIME PER WEEK 300 MINUTES</b>	<b>QUARTER 2- 45 days</b>
<b>STANDARDS AND BENCHMARKS/SKILLS</b>	<p>A-1.7 I can use reasoning and logic to create questions, write problems, and explain answers.</p> <p>A-2.7 I can explain the answers to problems using correct math vocabulary, symbols, pictures, charts, tables, diagrams, graphs, and models.</p> <p>A-3.7 I can determine the reasonableness of answers.</p> <p>A-4.7 I can read and interpret mathematical text and other mathematical representations in real-world context (e.g., numbers, symbols, diagrams, and models).</p> <p>A-5.7 I can use a computer or a calculator as a problem-solving tool.</p> <p>B-33.5 I can add fractions with like denominators (e.g., halves, thirds, fourths, fifths, and tenths)</p> <p>B-20.6 I can write ratios and set up proportions (e.g. scale, drawings, similar figures, and indirect measurement)</p> <p>B-27.6 I can add mixed numbers and fractions with like and unlike denominators.</p> <p>B-28.6 I can subtract mixed numbers and fractions with like and unlike denominators.</p> <p>B-1.7 I can represent rational numbers using words, numerals, number lines, geometric models, and scientific notation.</p> <p>B-7.7 I can find the LCM of two or more numbers.</p> <p>B-8.7 I can find the GCF of two or more numbers.</p> <p>B-12.7 I can simply fractions and mixed numbers.</p> <p>B-13.7 I can identify equivalent forms of fractions, decimals, and percents.</p> <p>B-16.7 I can solve percent problems (e.g., discounts, tips, and sales tax).</p> <p>B-17.7 I can apply proportional reasoning to problem situations (e.g., unit rate and similarities).</p> <p>*B- 25.7 I can multiply and divide fractions and mixed numbers</p> <p>C-2.7 I can draw and/or describe a similar figure when given a polygon drawn on graph paper with vertices at lattice points.</p> <p>C-4.7 I can identify figures that are congruent and/or similar and use proportions to solve problems.</p> <p>D-15.7 I can draw similar figures using a scale factor (i.e., enlarge/shrink).</p> <p>F-2.7 I can complete increasing or decreasing number patterns and geometric patterns.</p> <p>*F-13.7 I can solve a two-step single variable equation with rational coefficients.</p> <p>B-8.8 I can perform operations on real numbers (e.g., absolute value, reciprocals, and exponents).</p> <p>C-4.8 I can use proportions to solve problems involving similar figures.</p> <p>*F-10.8 I can solve single variable linear inequalities.</p>
<b>ASSESSMENT</b>	KUSD quarterly common assessment; quizzes; unit assessments, projects
<b>CONTENT TOPIC/THEME/UNIT</b>	<p>Chapter 4.1 – 4.7 Factors, Fractions, and Exponents</p> <p>Chapter 5.1 – 5.7 Rational Numbers and Equations</p> <p>Chapter 6.1 – 6.6 Ratio, Proportion, and Probability</p> <p>Chapter 7.1 – 7.7 Percents</p>
<b>INSTRUCTIONAL MATERIAL</b>	Larson, <i>Pre-Algebra</i> , McDougal Littell, 2005 ISBN 0-618-25003-4
<b>TECHNOLOGY</b>	<p>Online book: <a href="http://www.classzone.com">www.classzone.com</a> (user name and password required)</p> <p>Online resources: <a href="http://www.classzone.com">www.classzone.com</a> (no registration required)</p>

**CURRICULUM MAP – Middle School MATHEMATICS  
INSTRUCTIONAL SERVICES, KENOSHA UNIFIED SCHOOL DISTRICT NO. 1**

Teacher: \_\_\_\_\_ **Grade 7 Pre-algebra** School: \_\_\_\_\_

<b>TIME PER WEEK 300 MINUTES</b>	<b>QUARTER 3- 45 days</b>
<b>STANDARDS AND BENCHMARKS/SKILLS</b>	<p>A-1.7 I can use reasoning and logic to create questions, write problems, and explain answers.</p> <p>A-2.7 I can explain the answers to problems using correct math vocabulary, symbols, pictures, charts, tables, diagrams, graphs, and models.</p> <p>A-3.7 I can determine the reasonableness of answers.</p> <p>A-4.7 I can read and interpret mathematical text and other mathematical representations in real-world context (e.g., numbers, symbols, diagrams, and models).</p> <p>A-5.7 I can use a computer or a calculator as a problem-solving tool.</p> <p>B – 26.7 I can estimate square roots to the nearest whole number.</p> <p>C – 1.7 I can identify and describe three-dimensional figures (e.g., rectangular prisms, square pyramids, cones, cylinders, and spheres).</p> <p>D – 10.7 I can find the area of all quadrilaterals and triangles.</p> <p>D – 13.7 I can find the surface area of cylinders and rectangular prisms.</p> <p>D – 14.7 I can find the volume of cylinders and rectangular prisms.</p> <p>D – 16.7 I can use formulas in applications (e.g., perimeter, area, and distance <math>[d=rt]</math>).</p> <p>F – 4.7 I can extend and use a function table with two operations to create a graph on the coordinate grid.</p> <p>F – 5.7 I can describe a linear pattern given a function table or graph.</p> <p>B – 7.8 I can estimate square roots to the nearest tenth and hundredth.</p> <p>C – 9.8 I can graph on the coordinate plane (e.g., using ordered pairs, table of values, and equations).</p> <p>C – 10.8 I can use the rectangular coordinate plane to describe the properties of geometric figures, (e.g. slope, parallel, perpendicular)</p> <p>D – 6.8 I can find the area and circumference of a circle in problem solving.</p> <p>D – 7.8 I can find the surface area of three-dimensional figures.</p> <p>D – 10.8 I can use the Pythagorean Theorem to find the missing side of a right triangle.</p> <p>F – 9.8 I can solve a multi-step linear equation with variables on both sides.</p>
<b>ASSESSMENT</b>	KUSD quarterly common assessment; quizzes; unit assessments, projects
<b>CONTENT TOPIC/THEME/UNIT</b>	Chapter 8.1 – 8.7, 8.9 Linear Functions Chapter 9.1 – 9.5 Real Numbers and Right Triangles Chapter 10.1 - 10.8 Measurement, Area, and Volume
<b>INSTRUCTIONAL MATERIAL</b>	Larson, <i>Pre-Algebra</i> , McDougal Littell, 2005 ISBN 0-618-25003-4
<b>TECHNOLOGY</b>	Online book: <a href="http://www.classzone.com">www.classzone.com</a> (user name and password required) Online resources: <a href="http://www.classzone.com">www.classzone.com</a> (no registration required)

**CURRICULUM MAP – Middle School MATHEMATICS**  
**INSTRUCTIONAL SERVICES, KENOSHA UNIFIED SCHOOL DISTRICT NO. 1**

Teacher: \_\_\_\_\_ **Grade 7 Pre-algebra** School: \_\_\_\_\_

<b>TIME PER WEEK 300 MINUTES</b>	<b>QUARTER 4 45 days</b>
<b>STANDARDS AND BENCHMARKS/SKILLS</b>	<p>A-1.7 I can use reasoning and logic to create questions, write problems, and explain answers.</p> <p>A-2.7 I can explain the answers to problems using correct math vocabulary, symbols, pictures, charts, tables, diagrams, graphs, and models.</p> <p>A-3.7 I can determine the reasonableness of answers.</p> <p>A-4.7 I can read and interpret mathematical text and other mathematical representations in real-world context (e.g., numbers, symbols, diagrams, and models).</p> <p>A-5.7 I can use a computer or a calculator as a problem-solving tool.</p> <p>C-6.7 I can classify figures possessing line symmetry only, line and rotation symmetry, rotational symmetry only, and no symmetry.</p> <p>D-15.7 I can draw similar figures using a scale factor (i.e., enlarge/shrink).</p> <p>E-1.7 I can display and analyze data in box-and-whisker plots and circle graphs.</p> <p>E-2.7 I can display and analyze data in scatter plots.</p> <p>E-3.7 I can make and analyze data in back to back stem-and-leaf plots and double bar graphs.</p> <p>E-4.7 I can identify and analyze misleading graphs.</p> <p>E-5.7 I can find the range, mean, median (odd or even number of data), and mode in a real-life situation.</p> <p>E-6.7 I can use probabilities to estimate outcomes and evaluate fair and unfair simple events.</p> <p>E-7.7 I can determine if outliers are affecting the measures of central tendency.</p> <p>E-8.7 I can use appropriate vocabulary to describe the probability of chance events.</p> <p>E-9.7 I can find the theoretical probability of a dependent or independent event (e.g., <math>P = \frac{\text{number of favorable out-comes}}{\text{total number of outcomes}}</math>).</p> <p>E-10.7 I can describe and determine the number of combinations from a set of five or less.</p> <p>E-11.7 I can use counting methods to determine possible outcomes.</p> <p>E-12.7 I can use a set of data to solve and interpret probability problems.</p> <p>C-1.8 I can draw, identify, and describe two- and three- dimensional shapes and compare their properties (e.g. parallel, perpendicular, and congruent sides, types of angles).</p> <p>C-5.8 I can determine the sum of the angles of a polygon using diagonals drawn from one vertex.</p> <p>C-7.8 I can solve problems using supplementary and complementary angles.</p> <p>C-8.8 I can translate, rotate, and reflect a shape to find new vertices.</p> <p>E-9.8 I can find the number of possible outcomes using the Fundamental Counting Principle</p>
<b>ASSESSMENT</b>	KUSD quarterly common assessment; quizzes; unit assessments; projects
<b>CONTENT TOPIC/THEME/UNIT</b>	<p>Chapter 13.1 – 13.7 Angle Relationships and Transformations</p> <p>MIC <i>Dealing with Data</i></p> <p>Chapter 6.7 – 6.8 Probability</p> <p>Chapter 11.3, 11.6 – 11.9 Data Analysis and Probability</p>
<b>INSTRUCTIONAL MATERIAL</b>	Larson, <i>Pre-Algebra</i> , McDougal Littell, 2005 ISBN 0-618-25003-4
<b>TECHNOLOGY</b>	<p>Online book: <a href="http://www.classzone.com">www.classzone.com</a> (user name and password required)</p> <p>Online resources: <a href="http://www.classzone.com">www.classzone.com</a> (no registration required)</p>