

Argenta-Oreana Middle School
Math 3 8th Pre-Algebra
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Date Semester	Common Core Standard	Unit and/or Essential Question Content and/or Skills	Assessments and/or Products
August-September	CC.8.NS.1 CC.8.F.4 *filling the gap from the transition to IL Learning Standards to CCSS	Algebraic Expressions and Integers <ul style="list-style-type: none"> ● Identify numerical and variable expressions ● Write variable expressions ● Use order of operations ● Use grouping symbols ● Evaluate variable expressions ● Solve problems by evaluating expressions ● Use models and rules to add and subtract integers ● Write rules for a pattern ● Find number patterns ● Name coordinates and quadrants on the coordinate plane ● Graph points on coordinate plane 	Completion of: <ul style="list-style-type: none"> ● related problems from the text or worksheets ● group work and/or projects ● quizzes after 3-5 sections ● cumulative chapter test Students may use calculators when completing any of the above items.
October	*filling the gap from the transition to IL Learning Standards to CCSS	Solving One-Step Equations and Inequalities <ul style="list-style-type: none"> ● Identify and use properties of numbers ● Use the distributive property for numerical and algebraic expressions ● Simplify variable expressions ● Use substitution to solve equations ● Use inverse operations to solve equations ● Graph Inequalities ● Solve one step inequalities using inverse operations 	Completion of: <ul style="list-style-type: none"> ● related problems from the text or worksheets ● group work and/or projects ● quizzes after 3-5 sections ● cumulative chapter test Students may use calculators when completing any of the above items.

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November/ December	CC.8.EE.4 CC.8.SP.1 CC.8.SP.4	<p>Decimals and Equations</p> <ul style="list-style-type: none"> ● Round decimals and estimate sums and differences ● Estimate decimal products and Quotients ● Find mean, median, and mode and choose the best measure for a given situation ● Use formulas and solve with substitution ● Solve equations by using inverse operations with decimals ● Identify appropriate metric measures ● Convert metric units ● Solve problems by acting them out ● Collect and interpret data 	<p>Completion of:</p> <ul style="list-style-type: none"> ● related problems from the text or worksheets ● group work and/or projects ● quizzes after 3-5 sections ● cumulative chapter test <p>Students may use calculators when completing any of the above items.</p>
December/ January	CC.8.NS.1 CC.8.EE.1 CC.8.EE.2	<p>Factors, Fractions, and Exponents</p> <ul style="list-style-type: none"> ● Use divisibility tests to find factors ● Use exponents with the order of operations ● Find prime factorization and greatest common factor ● Find equivalent fractions and write fractions in simplest form ● Identify and graph rational numbers ● Multiply powers with the same base ● Find power of a power ● Dividing expressions containing exponents ● Simplifying expressions with integer exponents ● Write and evaluate scientific notation ● Calculate using scientific notation 	<p>Completion of:</p> <ul style="list-style-type: none"> ● related problems from the text or worksheets ● group work and/or projects ● quizzes after 3-5 sections ● cumulative chapter test <p>Students may use calculators when completing any of the above items.</p>

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January	CC.8.EE.1 CC.8.EE.2 CC.8.EE.3 CC.8.EE.4	<p>Operations with Fractions</p> <ul style="list-style-type: none"> ● Find the Least Common Multiple ● Compare fractions ● Write fractions as decimals and decimals as fractions ● Add and subtract fractions and mixed numbers ● Multiply and divide rational numbers ● Identify appropriate customary units of measure ● Convert customary units of measure ● Use inverse operations to solve algebraic equations with fractions ● Find powers of products and quotients 	<p>Completion of:</p> <ul style="list-style-type: none"> ● related problems from the text or worksheets ● group work and/or projects ● quizzes after 3-5 sections ● cumulative chapter test <p>Students may use calculators when completing any of the above items.</p>
February/ March	CC.8.NS.1 CC.8.G.2 CC.8.NS.2	<p>Ratios, Proportions, and Percents</p> <ul style="list-style-type: none"> ● Write and simplify ratios ● Find rates and unit rates ● Convert between measurement systems ● Use proportions to solve problems ● Solve for missing sides on similar figures ● Use scale factor to solve for unknown value ● Find experimental and theoretical probability ● Know the difference between probability and odds ● Write percents as fractions and decimals ● Order rational numbers ● Find part of a whole or whole amount and percent ● Write and solve percent equations ● Find percent of increase or decrease ● Find Markups and discounts 	<p>Completion of:</p> <ul style="list-style-type: none"> ● related problems from the text or worksheets ● group work and/or projects ● quizzes after 3-5 sections ● cumulative chapter test <p>Students may use calculators when completing any of the above items.</p>

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March	CC.8.EE.8c	<p>Solving Equations and Inequalities</p> <ul style="list-style-type: none"> ● Solve problems using properties to solve two-step equations ● Combine like terms ● Use distributive property ● Solve multi-step equations with fractions and decimals ● Write equations to solve problems ● Solve equations with variables on both sides ● Solve two-step inequalities ● Solve formulas for a given variable ● Solve simple-Interest and compound-interest problems 	<p>Completion of:</p> <ul style="list-style-type: none"> ● related problems from the text or worksheets ● group work and/or projects ● quizzes after 3-5 sections ● cumulative chapter test <p>Students may use calculators when completing any of the above items.</p>
March/ April	CC.8.EE.2 CC.8.G.1 CC.8.G.3 CC.8.G.3 CC.8.G.4 CC.8.G.5 CC.8.G.6 CC.8.G.7 CC.8.G.8 CC.8.G.9	<p>Spatial Thinking</p> <ul style="list-style-type: none"> ● Points, lines, and planes ● Intersecting, parallel, and skew lines ● Adjacent and vertical angles ● Relating angles and parallel lines ● Classifying triangles and quadrilaterals ● Identifying corresponding parts and congruent triangles ● Pythagorean Theorem ● Find Circumference ● Graph and describe translations ● Identify lines of symmetry ● Graph reflections and rotations ● Identify rotational symmetry ● Tessellations ● Find the volume of cones, cylinders, and spheres 	<p>Completion of:</p> <ul style="list-style-type: none"> ● related problems from the text or worksheets ● group work and/or projects ● quizzes after 3-5 sections ● cumulative chapter test <p>Students may use calculators when completing any of the above items.</p>
May	CC.8.EE.5 CC.8.EE.6 CC.8.EE.7	<p>Linear Functions and Graphing</p> <ul style="list-style-type: none"> ● Identify and graph relations and functions ● Find solutions of two-variable equations 	<p>Completion of:</p> <ul style="list-style-type: none"> ● related problems from the text or worksheets

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	<p>CC.8.EE.7a CC.8.EE.7b CC.8.EE.8 CC.8.EE.8a CC.8.EE.8b CC.8.EE.8c CC.8.F.1 CC.8.F.2 CC.8.F.3 CC.8.F.4 CC.8.F.5 CC.8.G.8 CC.8.SP.1 CC.8.SP.2 CC.8.SP.3</p>	<ul style="list-style-type: none"> ● Graph equations with two variables ● Find slope of a line ● Graph using slope ● Write rules from words, tables, and graphs ● Interpret and draw scatter plots ● Use scatter plots to find trends ● Solve problems by graphing ● Graph systems of linear equations ● Graph linear inequalities 	<ul style="list-style-type: none"> ● group work and/or projects ● quizzes after 3-5 sections ● cumulative chapter test <p>Students may use calculators when completing any of the above items.</p>
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