

Argenta-Oreana Middle School
8th Pre-Algebra
Pre-Algebra
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Date Semester	IL Learning Standards	Unit and/or Essential Question Content and/or Skills	Assessments and/or Products
	6B3a, 6B3c, 6C3a, 6C3b, 7A3b, 8A3a, 8A3b, 8C3, 8D3a, 8D3c, 10A3b	Chapter 1-Variables, Expressions, and Integers <ul style="list-style-type: none"> • Write and evaluate variable expressions. • Perform operations with integers. • Plot points in a 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.
	6B3a, 6B3c, 6C3a, 7A3a, 7A3b, 7B3, 7C3b, 8A3a, 8C3, 8D3a, 8D3b, 10B3	Chapter 2-Solving Equations <ul style="list-style-type: none"> • Use mathematical properties to simplify variable expressions. • Write and solve on-step equations. • Perform operations with positive and negative decimals. 	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.
	6C3b, 7A3b, 8A3b, 8C3, 8D3a	Chapter 3-Multi-Step Equations and Inequalities <ul style="list-style-type: none"> • Write and solve multi-step equations. • Write and solve inequalities. 	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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	6A3, 6B3b, 6C3b, 6D3, 7A3b, 8C3, 8D3c	<p>Chapter 4-Factors, Fractions, and Exponents</p> <ul style="list-style-type: none"> • Find greatest common factors and least common multiples. • Identify equivalent fractions and write fractions in simplest form. • Use rules of exponents and 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>
	6A3, 6B3a, 6C3a, 6C3b, 7A3b, 8A3b, 8C3, 8D3a	<p>Chapter 5-Rational Numbers and Equations</p> <ul style="list-style-type: none"> • Write fractions as decimals and decimals as fractions. • Perform operations with fractions and mixed numbers • Solve equations and inequalities with rational numbers. 	<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>
	6C3b, 6D3, 7A3b, 7B3, 7C3a, 8C3, 8D3b, 9A3c, 9B3, 9C3a, 9C3b, 10A3c, 10B3, 10C3a, 10C3b	<p>Chapter 6-Ratio, Proportion, and Probability</p> <ul style="list-style-type: none"> • Write and compare ratios and rates. • Write and solve proportions. • Find theoretical and experimental probabilities. 	<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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	6A3, 6B3a, 6C3a, 6C3b, 6D3, 7A3b, 8C3, 8D3b	<p>Chapter 7-Percents</p> <ul style="list-style-type: none"> • Find and use equivalent decimals, fractions, and percents. • Use proportions and the percent equation to solve percent problems. • Solve problems involving percent of change. 	<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>
	6C3b, 7A3b, 7B3, 8A3b, 8B3, 8C3, 8D3a, 9B3, 10A3a, 10A3c, 10C3b	<p>Chapter 8-Linear Functions</p> <ul style="list-style-type: none"> • Represent and interpret relations and functions. • Write and graph linear equations in two variables. • Write and graph linear systems and linear inequalities. 	<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>
	6B3c, 6C3b, 7A3a, 7A3b, 7B3, 7C3a, 8C3, 8D3b, 8D3c, 9A3a, 9A3c, 9B3, 9C3a, 9C3b, 9D3, 10B3	<p>Chapter 9-Real Numbers and Right Triangles</p> <ul style="list-style-type: none"> • Find angle measures and side lengths of triangles and quadrilaterals. • Find the areas of parallelograms, trapezoids, and circles. • Use special right triangles and trigonometric ratios to solve 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>

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	6B3c, 7A3b, 7B3, 7C3b, 8C3, 9A3a, 9B3, 9C3a, 9C3b	Chapter 10-Measurement, Area, and Volume <ul style="list-style-type: none"> • Find angle measures and side lengths of triangles and quadrilaterals. • Find the areas of parallelograms, trapezoids, and circles. • Find the surface areas and volumes of prisms, cylinders, pyramids, and cones. 	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.
	7A3b, 8C3, 10A3a, 10A3b, 10A3c, 10B3, 10C3a, 10C3b	Chapter 11-Data Analysis and Probability <ul style="list-style-type: none"> • Make and interpret data displays. • Conduct surveys and analyze survey results. • Calculate probabilities of events. 	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.
	6B3c, 6C3b, 7A3b, 8C3, 8D3a, 8D3b, 8D3c	Chapter 12-Polynomials and Nonlinear Functions <ul style="list-style-type: none"> • Add, subtract, and multiply polynomials. • Evaluate powers of products, quotients, and powers. • Graph quadratic and exponential functions. 	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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	7A3a, 7B3, 7C3a, 8C3, 9A3a, 9A3b, 9A3c, 9B3, 9C3a, 9C3b	Chapter 13-Angle Relations and Transformations <ul style="list-style-type: none">• Identify special pairs of angles and find their measures.• Find the measures of interior and exterior angles and polygons.• Translate, reflect, rotate, and dilate geometric figures.	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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