Mathematics

Brunswick School Department Topics in Algebra and Geometry Unit 1: Connections to Algebra

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F	Connecting pre-algebra to algebra is a very important step in
Essential	learning Algebra.
Understandings	Models of real-life problems make them easier to solve.
	How do you evaluate expressions and powers?
	What is the order of operations?
Essential	How do you check solutions of equations?
Questions	How do you translate words into mathematical symbols?
	How do you model and solve real-life equations?
	Which vocabulary terms will help me be successful in the future?
	Expressions and powers can be evaluated.
Essential	 Solving math equations requires using the order of operations.
Knowledge	Equations have solutions.
	Words can be written as mathematical symbols.
	■ <u>Terms</u> :
	 arithmetic operations (sum, difference, product, & quotient),
Vocabulary	grouping symbols, order of operations, variable, expression,
	evaluate, equation, solve, solutions, power, base, exponent,
	factors, terms, substitute, simplify
	Evaluate expressions and powers using substitution.
	 Correctly follow the order of operations.
Essential	 Check solutions of equations.
Skills	 Translate words into mathematical symbols.
	 Model and solving real-life problems.
	<u>Mathematics</u>
	D. Algebra
	Symbols and Expressions
Related	D1.Students understand and use polynomials and expressions with
Maine Learning	rational exponents.
Results	 a. Simplify expressions including those with rational numbers.
	b. Add, subtract, and multiply polynomials.
	c. Factor the common term out of polynomial expressions.
	a. Divide polynomials by (ax+b)
Sample	Students will be given real-life word problems that incorporate a
Lessons	multi-method of solving the problem emphasizing the order of
And	operations and mathematical translations.
Activities	·
Sample	Students will present a chosen problem to the class detailing the
Classroom	method of solving the problem emphasizing the order of operations
Assessment	and mathematical translations.
Methods	
	Publications:
Sample	Algebra 1 Textbook (McDougall Littell)
Resources	
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