Brunswick School Department Transitional Mathematics

Unit 5: Pre-Algebra

Unit 5: Pre-Algebra	
Essential	 Algebra is a universal language. Algebra utilizes systematic methods for problem solving.
Understandings	 Algebra allows for the use of variable to represent numbers.
	How do you solve equations?
	What are the steps for order of operations?
	What is a variable?
Essential	What does it mean to evaluate an expression?
Questions	What are the symbols of inclusion?
	What do exponents mean?
	How do you use the distributive property?
	What are like terms?
	How do you combine like terms?
	• The steps for are order of operations can be remembered using the
	pneumonic device; "PEMDAS".
	 A variable is a place holder for a given numeric value.
Essential	 Parentheses and brackets are symbols of inclusion.
Knowledge	 An exponent (x) requires multiplying the base number "x" times.
	 The distributive property combines multiplication with either
	addition or subtraction.
	 Like terms are expressions with the same variable to the same
	power.
	• <u>Terms</u> :
Vocabulary	 variable, expression, evaluate, quotient, product, quantity,
	substitution, parenthesis, brackets, inclusion, exponents,
	distribute, and simplify.
	 Evaluate expressions using order of operations.
	 Evaluate expressions given variable values.
Essential	 Simplify expressions by combining like terms.
Skills	 Simplify exponential expressions.
	Use the distributive property.
	Mathematics
	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.d. Divide polynomials by (ax+b).
Sampla	 Students will unscramble words to illustrate the concept of order.
Sample Lessons	Further students will build Lego cars according to step by step
And	directions to further emphasize the concept of order. Finally
Activities	students will apply this concept of order algebraically with the order
	of operations; using "PEMDAS".

Brunswick School Department Transitional Mathematics Unit 5: Pre-Algebra

Sample Classroom Assessment Methods	 Students will demonstrate proficiency through quizzes and tests.
Sample Resources	 <u>Publications:</u> <u>Saxon-Algebra 1/2</u>