Mathematics
Algebra 1: Part 1
Unit 2: Properties of Real Numbers

Essential Understandings	▪ The use of real numbers is a very important step in understanding algebra.
Essential Questions	▪ What are the different types of real numbers? ▪ How do you graph real numbers? ▪ What is absolute value? ▪ How do you add, subtract, multiply and divide real numbers? ▪ What is the distributive property? ▪ How do you simplify expressions?
Essential Knowledge	▪ There are many types of real numbers. ▪ All real numbers can be graphed on number lines. ▪ Absolute value is a distance the number is from zero. ▪ Adding, subtracting, multiplying, and dividing numbers follows important rules. ▪ You can combine like terms.
Vocabulary	▪ <u>Terms</u>: o real numbers, number line, absolute value, like terms, distributive property
Essential Skills	▪ Identify real numbers. ▪ Graph real numbers on number lines. ▪ Find the absolute value. ▪ Add, subtract, multiply and divide real numbers ▪ Use the distributive property. ▪ Simplify expressions.

Related Maine Learning Results	<u>Mathematics</u>
	A. Number
	  Real Number
	  A1.Students will know how to represent and use real numbers.
	    a. Use the concept of nth root.
	    b. Estimate the value(s) of roots and use technology to approximate them.
	    c. Compute using laws of exponents.
	    d. Multiply and divide numbers expressed in scientific notation.
	    e. Understand that some quadratic equations do not have real solutions and that there exist other number systems to allow for solutions to these equations.

Sample Lessons And Activities	▪ Students will orally respond to questions. ▪ Students will utilize worksheets and in their notes to demonstrate individual understanding of the concepts.

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Sample Classroom Assessment Methods	• Evaluate homework • Quizzes • Chapter test
Sample Resources	• <u>Publications:</u> ○ <u>Algebra 1</u> – McDougall Littell