

Mathematics
Algebra 1: CP
Unit 1: Connections to Algebra

Essential Understandings	<ul style="list-style-type: none"> ▪ Connecting pre-algebra to algebra is a very important step in learning Algebra.
Essential Questions	<ul style="list-style-type: none"> ▪ How do you evaluate expressions and powers? ▪ What is the order of operations? ▪ How do you check solutions of equations and inequalities? ▪ How do you translate words into mathematical symbols? ▪ How do you model and solve real-life equations? ▪ What are the different types of tables and graphs and how do I use them? ▪ What are functions and how do I represent them? ▪ Which vocabulary terms will help me be successful in the future?
Essential Knowledge	<ul style="list-style-type: none"> ▪ Expressions and powers can be evaluated. ▪ Order of operations need to be performed in a specific sequence. ▪ Equations and inequalities are different but both have solutions. ▪ Words can be written as mathematical symbols. ▪ Models of real-life problems make them easier to solve. ▪ There are different types of tables and graphs. ▪ Functions are a large part of Algebra.
Vocabulary	<ul style="list-style-type: none"> ▪ <u>Terms:</u> <ul style="list-style-type: none"> ○ arithmetic operations (sum, difference, product, & quotient), grouping symbols, order of operations, variable, expression, evaluate, equation, solve, inequality, solutions, power, base, exponent, factors, terms, substitute, simplify.
Essential Skills	<ul style="list-style-type: none"> ▪ Evaluate expressions and powers using substitution. ▪ Correctly follow the order of operations. ▪ Check solutions of equations and inequalities. ▪ Translate words into mathematical symbols. ▪ Model and solve real-life problems. ▪ Use tables and graphs to organize data. ▪ Identify functions.
Related Maine Learning Results	<p><u>Mathematics</u> D. Algebra Symbols and Expressions D1.Students understand and use polynomials and expressions with rational exponents. 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 $(ax+b)$.</p>
Sample Lessons	<ul style="list-style-type: none"> ▪ Students will orally respond to questions. ▪ Students will utilize worksheets and in their notes to demonstrate

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And Activities	individual understanding of the concepts.
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Sample Classroom Assessment Methods	<ul style="list-style-type: none">▪ Evaluate homework▪ Quizzes▪ Chapter test
Sample Resources	<ul style="list-style-type: none">▪ <u>Publications:</u><ul style="list-style-type: none">○ <u>Algebra 1</u> – McDougall Littell