## Mathematics Algebra 1: Academic Unit 8: Laws of Exponents

Essential	The laws of exponents are very important to future mathematical
Understandings	work.
	What are the multiplication laws of exponents?
Essential	How do I evaluate powers with negative exponents?
Questions	How do I evaluate powers with zero as their exponent?
	What are the division laws of exponents?
	There are many multiplication laws of exponents.
Essential	There are rules for negative exponents.
Knowledge	There are rules for zero as an exponent.
	There are many division laws of exponents.
	■ <u>Terms</u> :
Vocabulary	o power, base, exponent, product of powers property, power
	of a power property, power of a product property, zero
	exponents, negative exponents, quotient of a powers
	property, power of a quotient property  Use the multiplication laws of exponents
Essential	<ul><li>Use the multiplication laws of exponents.</li><li>Evaluate powers with negative exponents.</li></ul>
Skills	<ul> <li>Evaluate powers with negative exponents.</li> <li>Evaluate powers with zero as their exponent.</li> </ul>
Skills	<ul> <li>Evaluate powers with zero as their exponent.</li> <li>Use the division laws of exponents.</li> </ul>
	Mathematics
	A. Number
	Real Number
Related	A1.Students will know how to represent and use real numbers.
Maine Learning	c. Compute using laws of exponents.
Results	D. Algebra
	Symbols and Expressions
	D1.Students understand and use polynomials and expressions with
	rational exponents.
	a. Simplify expressions including those with rational numbers.
Sample	Students will orally respond to questions.
Lessons	Students will utilize worksheets and in their notes to demonstrate
And	individual understanding of the concepts.
Activities	- 0.:
Sample	Quizzes     Take home workshoots
Classroom	<ul><li>Take-home worksheets</li><li>Tests</li></ul>
Assessment Methods	■ Tests
MEUIOUS	Publications:
Sample	○ Algebra -Foerster
Resources	