

Essential Understandings	<ul style="list-style-type: none"> The laws of exponents are very important to future mathematical work.
Essential Questions	<ul style="list-style-type: none"> What are the multiplication laws of exponents? How do I evaluate powers with negative exponents? How do I evaluate powers with zero as their exponent? What are the division laws of exponents?
Essential Knowledge	<ul style="list-style-type: none"> There are many multiplication laws of exponents. There are rules for negative exponents. There are rules for zero as an exponent. There are many division laws of exponents.
Vocabulary	<ul style="list-style-type: none"> <u>Terms:</u> <ul style="list-style-type: none"> 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
Essential Skills	<ul style="list-style-type: none"> Use the multiplication laws of exponents. Evaluate powers with negative exponents. Evaluate powers with zero as their exponent. Use the division laws of exponents.
Related Maine Learning Results	<p><u>Mathematics</u></p> <p>A. Number Real Number A1.Students will know how to represent and use real numbers. c. Compute using laws of exponents.</p> <p>D. Algebra Symbols and Expressions D1.Students understand and use polynomials and expressions with rational exponents. a. Simplify expressions including those with rational numbers.</p>
Sample Lessons And Activities	<ul style="list-style-type: none"> Students will orally respond to questions. Students will utilize worksheets and their notes to demonstrate individual understanding of the concepts.
Sample Classroom Assessment Methods	<ul style="list-style-type: none"> Quizzes Take-home worksheets Tests
Sample Resources	<ul style="list-style-type: none"> <u>Publications:</u> <ul style="list-style-type: none"> <u>Algebra 1 Concepts and Skills</u> - McDougal - Littell