

Name: Langteau		Grading Quarter:	Week Beginning: Week 8
School Year: 2024/2025		Subject: Algebra 1	
Monday	Notes:	<p>Objective:</p> <p>SWBAT: Simplify expressions using the quotient rule for exponents.</p> <p>Lesson Overview:</p> <p>Students will begin with a bellwork problem reviewing the power rule to activate prior knowledge. The lesson will introduce the quotient rule, demonstrating how to simplify expressions by subtracting exponents when dividing like bases.</p>	<p>Academic Standards:</p> <p>HSF-IF.C.8.b - Use properties of exponents to rewrite expressions for different representations.</p>
Tuesday	Notes:	<p>Objective:</p> <p>SWBAT: Simplify expressions using negative exponents and convert between negative and positive exponents</p> <p>Lesson Overview:</p> <p>The lesson will begin with a warm-up problem reviewing the quotient rule. Students will then be introduced to the concept of negative exponents and how they represent fractions rather than negative values.</p>	<p>Academic Standards:</p> <p>HSN-RN.A.2 - Rewrite expressions using rational exponents.</p>
Wednesday	Notes:	<p>Objective:</p> <p>SWBAT: Convert numbers between scientific notation and standard form and perform operations with scientific notation.</p> <p>Lesson Overview:</p> <p>To start, students will complete a quick warm-up reviewing negative exponents to reinforce the previous lesson. The teacher will introduce scientific notation, explaining its purpose in expressing very large and very small numbers efficiently. Students will learn how to convert between standard form and scientific notation, followed by a demonstration of how to multiply and divide numbers written in scientific notation.</p>	<p>Academic Standards:</p> <p>HSN-Q.A.3 - Use scientific notation to describe large and small numbers.</p>

Thursday	Notes:	<p>Objective:</p> <p>SWBAT: Apply all exponent rules (power rule, quotient rule, negative exponents, and scientific notation) in multi-step problems.</p> <p>Lesson Overview:</p> <p>Students will begin the lesson by analyzing a common exponent mistake and correcting it as a class. The teacher will then review all previously learned exponent rules, showing how they can be combined in complex problems. Students will engage in a collaborative activity where they work in pairs or small groups to solve multi-step exponent problems.</p>	<p>Academic Standards:</p> <p>HSN-RN.A.2 - Apply exponent rules to simplify expressions.</p>
Friday	Notes:	<p>Objective:</p> <p>SWBAT: Demonstrate understanding of exponent rules through a review and short assessment.</p> <p>Lesson Overview:</p> <p>Students will take a short quiz assessing their knowledge of the quotient rule, negative exponents, and scientific notation.</p>	<p>Academic Standards:</p> <p>HSF-IF.C.8.b - Use exponent properties to rewrite expressions.</p>