UNIT 7- LESSON PLANS

Class	Algebra 1	**Topic**	U7- Division Properties of Exponents	**Lesson**	4	**Of**	8

Objective	Students will: • Define and illustrate powers; • Divide powers of the same base; and • Simplify polynomials using division law of exponent.
"I Can" Statement	I can simplify polynomials using the division law of exponent.

Common Core Standards	CCSS.Math.Content.HSF.IF.C.8.b Use the properties of exponents to interpret expressions for exponential functions. For example, identify percent rate of change in functions such as $y = (1.02)^t$, $y = (0.97)^t$, $y = (1.01)12^t$, $y = (1.2)^t/10$, and classify them as representing exponential growth or decay. CCSS.Math.Content.HSA.SSE.B.3.c Use the properties of exponents to transform expressions for exponential functions. *For example the expression* 1.15^t *can be rewritten as* $(1.15^{1/12})^{12t} \approx 1.012^{12t}$ *to reveal the approximate equivalent monthly interest rate if the annual rate is 15%*.

Bell Work	See Bell Work7-4

Procedures	1. Start and lead student discussion related to the bell work. 2. Distribute the Guided Notes 3. Present lesson or play a video lesson. 4. Use an Online Activity if time permitted. 5. Distribute Lesson Assignment.

Assessment	Bell Work 7-4 Assignment 7-4 Exit Quiz 7-4

Additional Resources	See Online Activities