

# UNIT 7- LESSON PLANS

**Class** Algebra 1 **Topic** U7- Multiplying Powers with the Same Base **Lesson** 2 **Of** 8

**Objective** Students will:

- Define and illustrate powers;
- Multiply power of the same base; and
- Simplify polynomials using multiplication law of exponent.

**“I Can” Statement** I can simplify polynomials using the multiplication 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 Work7-2

**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 7-2  
Assignment 7-2  
Exit Quiz 7-2

**Additional Resources** See Online Activities