

UNIT 7- LESSON PLANS

Class Algebra 1 **Topic** U7- Zero and Negative Exponent **Lesson** 1 **Of** 8

Objective Students will:

- define and illustrate powers with negative and zero exponents;
- simplify expressions with negative powers; and
- evaluate powers with negative and zero exponents.

“I Can” Statement I can simplify and evaluate powers with negative and zero exponents.

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 Work7-1

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 7-1
Assignment 7-1
Exit Quiz 7-1

Additional Resources See Online Activities