

UNIT 7- LESSON PLANS

Class Algebra 1 **Topic** U7- Exponential Growth and Decay **Lesson** 7 **Of** 8

Objective	Students will: <ul style="list-style-type: none"> • Use properties of Exponent; and • Solve problem involving exponential growth and decay.
"I Can" Statement	I can solve problems involving exponential growth and decay using properties of exponent.

Common Core Standards	<p>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 $y = (1.02)^t$, $y = (0.97)^t$, $y = (1.01)^{12t}$, $y = (1.2)^t/10$, and classify them as representing exponential growth or decay.</p> <p>CCSS.Math.Content.HSA.SSE.B.3.c Use the properties of exponents to transform expressions for exponential functions. <i>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%.</i></p>
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Bell Work See Bell Work7-7

Procedures	<ol style="list-style-type: none"> 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.
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Assessment	<p>Bell Work 7-7</p> <p>Assignment 7-7</p> <p>Exit Quiz 7-7</p>
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Additional Resources See Online Activities