

Name: Langteau		Grading Quarter: 4	Week Beginning: week 4
School Year: 2024/2025		Subject: Algebra 1	
Monday	Notes:	Objective: <b>SWBAT:</b> Identify characteristics of exponential functions and distinguish them from linear functions.  Lesson Overview:  After reviewing linear vs exponential growth, students will revisit the structure of $y=ab^x$ identify key components, and explore growth patterns.	Academic Standards:  <b>HSF-LE.A.1:</b> Distinguish between situations that can be modeled with linear and exponential functions.
	Notes:	Objective:  <b>SWBAT:</b> Graph exponential functions and identify intercepts and asymptotes.  Lesson Overview:  Students will use tables and equations to create graphs and describe behavior such as growth, decay, and end behavior.	Academic Standards:  <b>HSF-LE.A.2:</b> Construct exponential functions given a graph, a description, or input-output pairs.
	Notes:	Objective:  <b>SWBAT:</b> Describe and apply vertical shifts, reflections, and stretches to exponential graphs.  Lesson Overview: <ul style="list-style-type: none"><li>Students will analyze how modifying the equation affects the graph, using Desmos and hand-drawn graphs.</li></ul>	Academic Standards:  <b>HSF-LE.A.2:</b> Construct exponential functions given a graph, a description, or input-output pairs.
Tuesday			
Wednesday			

Thursday	Notes:	<p>Objective:</p> <p><b>SWBAT:</b> Write exponential equations to represent real-world scenarios.</p> <p>Lesson Overview:</p> <p>Students will use given tables or word problems to construct functions in the form <math>y=abx</math> or <math>y=ab^x</math> and explain what each part represents.</p>	<p>Academic Standards:</p> <p><b>HSF-LE.A.2:</b> Construct exponential functions given a graph, a description, or input-output pairs.</p>
Friday	Notes:	<p>Objective:</p> <p><b>SWBAT:</b> Identify geometric sequences and relate them to exponential functions.</p> <p>Lesson Overview:</p> <p>Students will compare recursive and explicit formulas, make connections to exponential rules, and practice with patterns and context-based problems.</p>	<p>Academic Standards:</p> <p><b>HSF-LE.A.2:</b> Construct exponential functions given a graph, a description, or input-output pairs.</p>