

	exponential equations in mathematically applicable situations.		
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	<ul style="list-style-type: none">• A.PAR.8.2 - Create exponential equations in one variable and use them to solve problems, including mathematically applicable situations. LT: I can solve exponential equations. (Like bases) SC: <ul style="list-style-type: none">• I know the rules of exponents when multiplying.• I know the rules of exponents when dividing.• I know the rules of exponents when raising a power to a power.		
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<p>Day 4</p>	<p>A.PAR.8: Create and analyze exponential expressions and equations to represent and model real-life phenomena; solve exponential equations in mathematically applicable situations.</p> <ul style="list-style-type: none"> • A.PAR.8.2 - Create exponential equations in one variable and use them to solve problems, including mathematically applicable situations. <p>LT: I can solve exponential equations.</p> <p>SC:</p> <ul style="list-style-type: none"> • know the rules of exponents when multiplying. • I know the rules of exponents when dividing. • I know the rules of exponents when raising a power to a power. 		
<p>Day 5</p>	<p>A.PAR.8: Create and analyze exponential expressions and equations to represent and model real-life phenomena; solve exponential equations in mathematically applicable situations.</p> <ul style="list-style-type: none"> • A.PAR.8.2 - Create exponential equations in one variable and use them to solve problems, including mathematically applicable situations. <p>LT: I can solve exponential equations.</p> <p>SC:</p>		

	<ul style="list-style-type: none"> • I know the rules of exponents when multiplying. • I know the rules of exponents when dividing. • I know the rules of exponents when raising a power to a power. 		
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<p>Day 6</p>	<p>A.PAR.8: Create and analyze exponential expressions and equations to represent and model real-life phenomena; solve exponential equations in mathematically applicable situations.</p> <ul style="list-style-type: none"> • A.PAR.8.2 - Create exponential equations in one variable and use them to solve problems, including mathematically applicable situations. <p>LT: I can solve exponential equations.</p> <p>SC:</p> <ul style="list-style-type: none"> • know the rules of exponents when multiplying. • I know the rules of exponents when dividing. • I know the rules of exponents when raising a power to a power. 		
<p>Day 7</p> <p>Day 8</p>	<p>QUIZ</p> <p>Standards:A.FGR.9: Construct and analyze the graph of an exponential function to explain a mathematically applicable situation for which the graph serves as a model; compare exponential with linear and quadratic functions.</p> <ul style="list-style-type: none"> • A.FGR.9.1: Use function notation to build and evaluate exponential functions for inputs in their domains and interpret statements that use function notation in terms of a context. • A.FGR.9.2: Graph and analyze the key characteristics of simple exponential functions based on mathematically applicable situations. • A.FGR.9.3: Identify the effect on the graph generated by an 		

	<p>exponential function when replacing $f(x)$ with $f(x) + k$, and $k f(x)$, for specific values of k (both positive and negative); find the value of k given the graphs.</p> <ul style="list-style-type: none">● A.FGR.9.4: Use mathematically applicable situations algebraically and graphically to build and interpret geometric sequences as functions whose domain is a subset of the integers.● A.FGR.9.5: Compare characteristics of two functions each represented in a different way. <p>LT: I can graph and analyze an exponential function. SC:</p> <ul style="list-style-type: none">● I can understand b impacts the shape of the graph when $b > 1$ and when $0 < b < 1$, graph of an exponential function f given by $f(x) = a \cdot bx$. <p>Lesson/Activity: Resources:</p>		
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Day 9	<p>Standards:A.FGR.9: Construct and analyze the graph of an exponential function to explain a mathematically applicable situation for which the graph serves as a model; compare exponential with linear and quadratic functions.</p> <ul style="list-style-type: none">● A.FGR.9.1: Use function notation to build and evaluate exponential functions for inputs in their domains and interpret statements that use function notation in terms of a context.● A.FGR.9.2: Graph and analyze the key characteristics of simple exponential functions based on mathematically applicable situations.● A.FGR.9.3: Identify the effect on the graph generated by an exponential function when replacing $f(x)$ with $f(x) + k$, and k		
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	<p>$f(x)$, for specific values of k (both positive and negative); find the value of k given the graphs.</p> <ul style="list-style-type: none">● A.FGR.9.4: Use mathematically applicable situations algebraically and graphically to build and interpret geometric sequences as functions whose domain is a subset of the integers.● A.FGR.9.5: Compare characteristics of two functions each represented in a different way. <p>LT: I can identify and interpret the key features of exponential functions represented in tables and graphs.</p> <p>SC:</p> <ul style="list-style-type: none">● I can identify the x-intercepts of a function.● I can identify the y-intercept of an exponential function. ● I can identify the intervals of increase and decrease of a function.● I can identify the domain and range of a exponential function ● I can identify the end behavior of the exponential function		
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Day 10	Standards:A.FGR.9: Construct and analyze the graph of an exponential function to explain a mathematically applicable situation for which the graph serves as a model; compare exponential with linear and quadratic functions. <ul style="list-style-type: none">● A.FGR.9.1: Use function notation to build and evaluate exponential functions for inputs in their domains and interpret statements that use function notation in terms of a context.● A.FGR.9.2: Graph and analyze the key characteristics of simple exponential functions based on mathematically applicable situations.● A.FGR.9.3: Identify the effect on the graph generated by an exponential function when replacing $f(x)$ with $f(x) + k$, and k		
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	<p>$f(x)$, for specific values of k (both positive and negative); find the value of k given the graphs.</p> <ul style="list-style-type: none">● A.FGR.9.4: Use mathematically applicable situations algebraically and graphically to build and interpret geometric sequences as functions whose domain is a subset of the integers.● A.FGR.9.5: Compare characteristics of two functions each represented in a different way. <p>LT: I can identify and interpret the key features of exponential functions represented in tables and graphs.</p> <p>SC:</p> <ul style="list-style-type: none">● I can identify the x-intercepts of a function.● I can identify the y-intercept of an exponential function. ● I can identify the intervals of increase and decrease of a function.● I can identify the domain and range of a exponential function ● I can identify the end behavior of the exponential function		
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Day 11	<p>Standards:A.FGR.9: Construct and analyze the graph of an exponential function to explain a mathematically applicable situation for which the graph serves as a model; compare exponential with linear and quadratic functions.</p> <ul style="list-style-type: none">● A.FGR.9.1: Use function notation to build and evaluate exponential functions for inputs in their domains and interpret statements that use function notation in terms of a context.● A.FGR.9.2: Graph and analyze the key characteristics of simple exponential functions based on mathematically applicable situations.● A.FGR.9.3: Identify the effect on the graph generated by an exponential function when replacing $f(x)$ with $f(x) + k$, and k		
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	<p>$f(x)$, for specific values of k (both positive and negative); find the value of k given the graphs.</p> <ul style="list-style-type: none"> ● A.FGR.9.4: Use mathematically applicable situations algebraically and graphically to build and interpret geometric sequences as functions whose domain is a subset of the integers. ● A.FGR.9.5: Compare characteristics of two functions each represented in a different way. <p>LT: I can identify and interpret the key features of exponential functions represented in tables and graphs.</p> <p>SC:</p> <ul style="list-style-type: none"> ● I can identify the x-intercepts of a function. ● I can identify the y-intercept of an exponential function. ● I can identify the intervals of increase and decrease of a function. ● I can identify the domain and range of a exponential function ● I can identify the end behavior of the exponential function 		
<p>Day 12</p>	<p>LT: Identify the effect on the graph generated by an exponential function when replacing $f(x)$ with $f(x) + k$, and $k f(x)$, for specific values of k (both positive and negative); find the value of k given the graphs.</p> <p>SC:</p> <ul style="list-style-type: none"> ● I can translate an exponential up, down, left or right. ● I can reflect a function ● I can stretch and compress a function. 		

Day 13	A.PAR.8 Create and analyze exponential expressions and equations to represent and model real-life phenomena; solve exponential equations in mathematically applicable situations.		
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Day 14

- A.PAR.8.2 - Create exponential equations in one variable and use them to solve problems, including mathematically applicable situations.
- A.PAR.8.3 - Create exponential equations in two variables to represent relationships between quantities, including in mathematically applicable situations; graph equations on coordinate axes with labels and scales.

LT: I can create exponential equations and use them to solve problems.

SC:

- I can create exponential functions to represent the relationship between two variables.
- I can explore exponential phenomena
- I can analyze exponential equations

A.PAR.8 Create and analyze exponential expressions and equations to represent and model real-life phenomena; solve exponential equations in mathematically applicable situations.

- A.PAR.8.2 - Create exponential equations in one variable and use them to solve problems, including mathematically applicable situations.
- A.PAR.8.3 - Create exponential equations in two variables to represent relationships between quantities, including in mathematically applicable situations; graph equations on coordinate axes with labels and scales.

LT: I can create exponential equations and use them to

	solve problems.		
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	SC: <ul style="list-style-type: none">● I can create exponential functions to represent the relationship between two variables.● I can explore exponential phenomena● I can analyze exponential equations		
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<p>Day 15</p>	<p>A.PAR.8 Create and analyze exponential expressions and equations to represent and model real-life phenomena; solve exponential equations in mathematically applicable situations.</p> <ul style="list-style-type: none"> ● A.PAR.8.2 - Create exponential equations in one variable and use them to solve problems, including mathematically applicable situations. ● A.PAR.8.3 - Create exponential equations in two variables to represent relationships between quantities, including in mathematically applicable situations; graph equations on coordinate axes with labels and scales. <p>LT: I can create exponential equations and use them to solve problems.</p> <p>SC:</p> <ul style="list-style-type: none"> ● I can create exponential functions to represent the relationship between two variables. ● I can explore exponential phenomena ● I can analyze exponential equations 		
<p>Day 16</p>	<p>A.FGR.9: Construct and analyze the graph of an exponential function to explain a mathematically applicable situation for which the graph</p>		

serves as a model; compare exponential with linear and quadratic functions.

- A.FGR.9.1 Use function notation to build and evaluate exponential functions for inputs in their domains and interpret statements that use function notation in terms of a context.
- A.FGR.9.2 Graph and analyze the key characteristics of simple exponential functions based on mathematically applicable situations.
- A.FGR.9.5 Compare characteristics of two functions each represented in a different way.

LT: I can compare and contrast linear, quadratic, and exponential functions.

SC:

- I can recognize the differences between the graphs of linear, quadratic, and exponential functions.
- I can recognize the differences between the tables of linear, quadratic, and exponential functions.
- I can recognize the differences between the equations of linear, quadratic, and exponential functions.

<p>Day 17</p>	<p>A.FGR.9: Construct and analyze the graph of an exponential function to explain a mathematically applicable situation for which the graph serves as a model; compare exponential with linear and quadratic functions.</p> <ul style="list-style-type: none"> ● A.FGR.9.1 Use function notation to build and evaluate exponential functions for inputs in their domains and interpret statements that use function notation in terms of a context. ● A.FGR.9.2 Graph and analyze the key characteristics of simple exponential functions based on mathematically applicable situations. 		
	<ul style="list-style-type: none"> ● A.FGR.9.5 Compare characteristics of two functions each represented in a different way. <p>LT: I can compare and contrast linear, quadratic, and exponential functions.</p> <p>SC:</p> <ul style="list-style-type: none"> ● I can recognize the differences between the graphs of linear, quadratic, and exponential functions. ● I can recognize the differences between the tables of linear, quadratic, and exponential functions. ● I can recognize the differences between the equations of linear, quadratic, and exponential functions. 		
<p>Day 18</p>	<p>Test Review</p>		
<p>Day 19</p>	<p>Test</p>		

