

High School Weekly Lesson Plan Template Algebra 1 Yearlong Unit 1

Unit 1 *for additional curriculum information, please visit the district's resource High School Pacing Guides or Georgia's K-12 Standards	Course Name: Algebra I Modeling Unit Functions
Day 1	Standard(s): Expressions and Linear Equations (8.PAR.3 & 8.PAR.4) LT: <ul style="list-style-type: none">● I can simplify linear expressions.● I can solve linear equations.● I can solve real world mathematical problems. SC: <ul style="list-style-type: none">● I can combine like terms.● I can solve for one variable.● I can interpret word problems and write equations.
Day 2	Standard(s): Expressions and Linear Equations (8.PAR.3 & 8.PAR.4) LT: <ul style="list-style-type: none">● I can simplify linear expressions.● I can solve linear equations.● I can solve real world mathematical problems. SC: <ul style="list-style-type: none">● I can combine like terms● I can solve for one variable.● I can interpret word problems and write equations.
Day 3-5	Standard(s): Expressions and Linear Equations (8.PAR.3 & 8.PAR.4) LT: <ul style="list-style-type: none">● I can simplify linear expressions.● I can solve linear equations.● I can solve real world mathematical problems.

	<p>SC:</p> <ul style="list-style-type: none"> ● I can combine like terms ● I can solve for one variable. ● I can interpret word problems and write equations.
Day 6-14	<p>Standard(s): Expressions and Linear Equations (8.PAR.3 & 8.PAR.4)</p> <p>LT:</p> <ul style="list-style-type: none"> ● I can simplify linear expressions. ● I can solve linear equations. ● I can solve real world mathematical problems. <p>SC:</p> <ul style="list-style-type: none"> ● I can combine like terms ● I can solve for one variable. ● I can interpret word problems and write equations.
Day 15	<p>Standard(s): A.MM.1.1 & 4 and A.FGR.2.1 & 2</p> <p>LT:</p> <ul style="list-style-type: none"> ● I can use arithmetic sequences to describe patterns. ● I can identify arithmetic sequences in linear functions to describe real world phenomena. ● I can construct and interpret graphs of linear functions. <p>SC:</p> <ul style="list-style-type: none"> ● I can find the common difference. ● I can create unknown points from given points and common difference ● I can use the explicit and recursive formulas to create a linear equation from an arithmetic sequence.
Day 16	<p>Standard(s): A.MM.1.1,4 A.FGR.2.1,2</p> <p>LT:</p> <ul style="list-style-type: none"> ● I can use arithmetic sequences to describe patterns. ● I can identify arithmetic sequences in linear functions to describe real world phenomena. ● I can construct and interpret graphs of linear functions.

	<p>SC:</p> <ul style="list-style-type: none"> ● I can find the common difference. ● I can create unknown points from given points and common difference ● I can use the explicit and recursive formulas to create a linear equation from an arithmetic sequence.
Day 17	<p>Standard(s): A.MM.1.1,4 A.FGR.2.1,2</p> <p>LT:</p> <ul style="list-style-type: none"> ● I can use arithmetic sequences to describe patterns. ● I can identify arithmetic sequences in linear functions to describe real world phenomena. ● I can construct and interpret graphs of linear functions. <p>SC:</p> <ul style="list-style-type: none"> ● I can find the common difference. ● I can create unknown points from given points and common difference ● I can use the explicit and recursive formulas to create a linear equation from an arithmetic sequence.
Day 18	QUIZ Unit #1 Quiz #1 Linear Exp/Equations/Sequences (Progress Learning)
Day 19	<p>Standard(s): A.MM.1.1,2,5 A.FGR.2.2,4</p> <p>LT:</p> <ul style="list-style-type: none"> ● I can read and interpret function notation in real-world applications. ● I can analyze the validity of a mathematical model in a real-world application. <p>SC:</p> <ul style="list-style-type: none"> ● I can identify function notation and differentiate it from multiplication notation ● I can identify the input value and substitute in in for x ● I can identify the input value on a graph and find the corresponding y value ● I can answer questions about mathematical models and validate the reasonableness of my choices
Day 20	<p>Standard(s): A.MM.1.1,4 A.FGR.2.1,2,4</p> <p>LT:</p> <ul style="list-style-type: none"> ● I can read and interpret function notation in real-world applications. ● I can analyze the validity of a mathematical model in a real-world application. <p>SC:</p>

	<ul style="list-style-type: none"> ● I can identify function notation and differentiate it from multiplication notation ● I can identify the input value and substitute in in for x ● I can identify the input value on a graph and find the corresponding y value ● I can answer questions about mathematical models and validate the reasonableness of my choices
Day 21	<p>Standard(s): A.MM.1.1,4 A.FGR.2.1,2,4</p> <p>LT:</p> <ul style="list-style-type: none"> ● I can construct and interpret graphs of linear functions. ● I can write an equation given a real world problem. <p>SC:</p> <ul style="list-style-type: none"> ● I can graph given the slope and y-intercept ● I can identify the slope and y-intercept
Day 22	<p>Standard(s): 8.FGR.5 D</p> <p>LT:</p> <ul style="list-style-type: none"> ● I can construct and interpret graphs of linear functions. ● I can write an equation given a real world problem. <p>SC:</p> <ul style="list-style-type: none"> ● I can identify key features of linear functions <ul style="list-style-type: none"> ○ Intercepts ○ Slope ○ Positive ○ Negative ○ Domain ○ Range ○ End Behavior
Day 23	<p>Standard(s): 8.FGR.5 D</p> <p>LT:</p> <ul style="list-style-type: none"> ● I can construct and interpret graphs of linear functions. ● I can write an equation given a real world problem.

	<p>SC:</p> <ul style="list-style-type: none"> ● I can graph given the slope and y-intercept ● I can identify the slope and y-intercept
<p>Day 24</p>	<p>Standard(s): 8.FGR.5 D</p> <p>LT:</p> <ul style="list-style-type: none"> ● I can construct and interpret graphs of linear functions. ● I can write an equation given a real world problem. <p>SC:</p> <ul style="list-style-type: none"> ● I can identify key features of linear functions <ul style="list-style-type: none"> ○ Intercepts ○ Slope ○ Positive ○ Negative ○ Domain ○ Range ○ End Behavior
<p>Day 25</p>	<p>Standard(s): A.MM.1.1,2,4,5 and A.FGR,2.2,3,4</p> <p>LT:</p> <ul style="list-style-type: none"> ● I can construct and interpret graphs of linear functions ● I can use function notation to build and evaluate linear functions ● I can determine appropriate domain and range values given a context <p>SC:</p> <ul style="list-style-type: none"> ● I can identify key features of linear functions <ul style="list-style-type: none"> ○ Intercepts ○ Slope ○ Positive ○ Negative ○ Domain ○ Range ○ End Behavior

<p>Day 26</p>	<p>Standard(s): A.MM.1.1,2,4,5 and A.FGR,2.2,3,4</p> <p>LT:</p> <ul style="list-style-type: none"> ● I can construct and interpret graphs of linear functions ● I can use function notation to build and evaluate linear functions ● I can determine appropriate domain and range values given a context <p>SC:</p> <ul style="list-style-type: none"> ● I can identify key features of linear functions <ul style="list-style-type: none"> ○ Intercepts ○ Slope ○ Positive ○ Negative ○ Domain ○ Range ○ End Behavior
<p>Day 27</p>	<p>Standard(s): A.MM.1.1,2,4,5 and A.FGR,2.2,3,4</p> <p>LT:</p> <ul style="list-style-type: none"> ● I can construct and interpret graphs of linear functions ● I can use function notation to build and evaluate linear functions ● I can determine appropriate domain and range values given a context <p>SC:</p> <ul style="list-style-type: none"> ● I can identify key features of linear functions <ul style="list-style-type: none"> ○ Intercepts ○ Slope ○ Positive ○ Negative ○ Domain ○ Range ○ End Behavior
<p>Day 28</p>	<p>QUIZ Unit #1 Quiz #2 Linear Functions (Progress Learning)</p>
<p>Day 29</p>	<p>Standard(s): A.MM.1.1,2,4,5 and A.FGR.2.2,3,4</p> <p>LT:</p> <ul style="list-style-type: none"> ● I can look at various functions in context and determine the appropriate domain and range. <p>SC:</p>

	<ul style="list-style-type: none"> ● I can identify appropriate domain and range values given a context. ● I can use set notation to describe the domain and range values of linear functions.
Day 30	<p>Standard(s): A.MM.1.1,2,4,5 and A.FGR.2.2,3,4</p> <p>LT:</p> <ul style="list-style-type: none"> ● I can look at various functions in context and determine the appropriate domain and range. <p>SC:</p> <ul style="list-style-type: none"> ● I can identify appropriate domain and range values given a context. ● I can use set notation to describe the domain and range values of linear functions.
Day 31	<p>Standard(s): A.MM.1.1 and A.FGR.2.5</p> <p>LT:</p> <ul style="list-style-type: none"> ● I can look at patterns and discover the patterns that nonlinear functions create. <p>SC:</p> <ul style="list-style-type: none"> ● Students will formally and informally describe the patterns. ● Students explore quadratic, exponential, absolute value, square root, and cube root parent functions
Day 32	<p>Standard(s): A.MM.1.1 and A.FGR.2.5</p> <p>LT:</p> <ul style="list-style-type: none"> ● I can look at patterns and discover the patterns that nonlinear functions create. <p>SC:</p> <ul style="list-style-type: none"> ● Students will formally and informally describe the patterns. ● Students explore quadratic, exponential, absolute value, square root, and cube root parent functions
Day 33	<p>Standard(s): A.MM.1.1 and A.FGR.2.5</p> <p>LT:</p> <ul style="list-style-type: none"> ● I can look at patterns and discover the patterns that nonlinear functions create. <p>SC:</p> <ul style="list-style-type: none"> ● Students will formally and informally describe the patterns. ● Students explore quadratic, exponential, absolute value, square root, and cube root parent functions
Day 34	Review for Test

	Standard(s): All Unit 1 Standards
Day 35	Test Unit #1 Test Linear Functions/Sequences/Function Fams (Progress Learning) Standard(s): All Unit 1 Standards