

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
Day 24	<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 25	<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

Day 26	<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
Day 27	<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
Day 28	QUIZ Unit #1 Quiz #2 Linear Functions (Progress Learning)
Day 29	<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