



ALGEBRA 1 PACING GUIDE 2020-2021

TOPICS	STARTING	ENDING	STANDARDS
TOPIC 1	8/31/20	9/17/20	A-SSE.1.1a , N-RN.2.3 , A-CED.1.3 , A-CED.1.1 , A-REI.1.1 , A-CED.1.2 , A-REI.4.10
TOPIC 2	9/18/20	10/6/20	A-REI.1.1 , A-CED.1.1 , A-REI.2.3 , A-REI.1.1 , A-CED.1.4 ,
TOPIC 3	10/7/20	10/23/20	A-REI.2.3 , A-CED.1.1 , A-SSE.1.1b
TOPIC 4	10/26/20	11/9/20	F-IF.2.4 , A-REI.4.10 , F-IF.2.5 , A-REI.4.11 , A-SSE.1.1a , A-CED.1.2 , F-IF.1.1 , F-IF.1.2 , A-SSE.1.1b , F-IF.1.3 , F-BF.1.1a , F-LE.1.2
TOPIC 5	11/10/20	12/7/20	F-IF.2.6 , F-LE.1.1b , A-CED.1.2 , F-BF.2.3 , A-SSE.1.1a , A-SSE.1.2 , F-IF.2.4 , F-IF.3.7a , F-BF.1.1a , F-LE.1.2 , F-LE.2.5 , F-IF.3.9 , S-ID.2.6a , S-ID.2.6c , S-ID.3.7 , S-ID.3.8 , S-ID.3.9 , S-ID.2.6b , F-IF.3.7b
TOPIC 6	12/8/20	1/12/21	A-REI.3.6 , A-REI.4.11 , A-REI.3.5 , A-CED.1.3 , A-REI.3.6 , A-REI.4.12 ,
TOPIC 7	1/13/21	2/3/21 2/26/21	N-RN.1.1 , N-RN.1.2 , A-SSE.1.1 , A-CED.1.2 , A-REI.4.11 , F-IF.2.4 , F-IF.2.5 , F-IF.3.7e , F-IF.3.9 , F-LE.1.2 , A-SSE.1.1a , A-SSE.1.1b , A-SSE.2.3c , F-IF.3.8b , F-BF.1.1a , F-BF.2.3 , F-LE.1.1c , F-LE.2.5
TOPIC 8	2/4/21	2/26/21	A-APR.1.1 , A-SSE.1.2 , A-SSE.1.1a , A-SSE.1.1b

TOPIC 9	3/1/21	4/1/21	A-SSE.1.1 , A-CED.1.2 , F-IF.2.4 , F-IF.2.5 , F-IF.3.7a , F-IF.3.7c , F-BF.2.3 , F-IF.3.9 , F-IF.2.6 , FLE.1.3 , A-CED.1.1 , A-CED.1.4 , A-APR.2.3 , A-REI.2.4b , A-REI.2.4 , A-SSE.2.3a , F-IF.3.8a , A-SSE.1.1a , A-SSE.1.1b , A-SSE.2.3b , A-CED.1.1 , A-REI.1.1 , A-REI.2.4a
TOPIC 10	4/5/21	4/20/21	G-SRT.3.8 , A-CED.1.4 , F-IF.3.7b , G-SRT.3.6
TOPIC 11	4/21/21	5/11/21	A-APR.4.7 , A-CED.1.1 , A-CED.1.2 , F-IF.2.5 , F-IF.2.4 , F-IF.3.7d
TOPIC 12	Mixed with review until EOC		S-ID.1.1 , S-ID.1.2 , S-ID.1.3 , S-ID.2.5

MAFS.912.A-APR.1.1	Understand that polynomials form a system analogous to the integers, namely, they are closed under the operations of addition, subtraction, and multiplication; add, subtract, and multiply polynomials.
Clarifications	<p>Students will relate the addition, subtraction, and multiplication of integers to the addition, subtraction, and multiplication of polynomials with integral coefficients through application of the distributive property.</p> <p>Students will apply their understanding of closure to adding, subtracting, and multiplying polynomials with integral coefficients.</p> <p>Students will add, subtract, and multiply polynomials with integral coefficients.</p>
Assessment Limits	<p>Items set in a real-world context should not result in a nonreal answer if the polynomial is used to solve for the unknown.</p> <p>In items that require addition and subtraction, polynomials are limited to monomials, binomials, and trinomials. The simplified polynomial should contain no more than six terms.</p> <p>Items requiring multiplication of polynomials are limited to a product of: two monomials, a monomial and a binomial, a monomial and a trinomial, two binomials, and a binomial and a trinomial.</p>
Stimulus Attributes	<p>Items may be set in a mathematical or real-world context.</p> <p>Items may use function notation.</p>
Response Attributes	<p>Items may require the student to write the answer in standard form. Items may require the student to recognize equivalent expressions.</p> <p>Items may require the student to rewrite expressions with negative exponents, but items must not require the student</p>

	to rewrite rational expression as seen in the standard MAFS.912.A-APR.4.7.
Calculator	Neutral
Sample Item	See Appendix A for the Practice Test item aligned to this standard.

<p>MAFS.912.A-CED.1.1</p> <p>Also assesses MAFS.912.A-REI.2.3</p> <p>Also assesses MAFS.912.A-CED.1.4</p>	<p>Create equations and inequalities in one variable and use them to solve problems. Include equations arising from linear and quadratic functions and simple rational, absolute, and exponential functions.</p> <p>Solve linear equations and inequalities in one variable, including equations with coefficients represented by letters.</p> <p>Rearrange formulas to highlight a quantity of interest, using the same reasoning as in solving equations. For example, rearrange Ohm's law, $V = IR$, to highlight resistance, R.</p>
Clarifications	<p>Students will write an equation in one variable that represents a realworld context.</p> <p>Students will write an inequality in one variable that represents a real-world context.</p> <p>Students will solve a linear equation.</p> <p>Students will solve a linear inequality.</p> <p>Students will solve multi-variable formulas or literal equations for a specific variable.</p> <p>Students will solve formulas and equations with coefficients represented by letters.</p>

Assessment Limits	<p>In items that require the student to write an equation, equations are limited to exponential functions with one translation, linear functions, or quadratic functions.</p> <p>Items may include equations or inequalities that contain variables on both sides.</p> <p>Items may include compound inequalities.</p> <p>In items that require the student to write an exponential function given ordered pairs, at least one pair of consecutive values must be given.</p> <p>In items that require the student to write or solve an inequality, variables are restricted to an exponent of one.</p> <p>Items that involve formulas should not include overused contexts such as Fahrenheit/Celsius or three-dimensional geometry formulas.</p> <p>In items that require the student to solve literal equations and formulas, a linear term should be the term of interest.</p>
	<p>Items should not require more than four procedural steps to isolate the variable of interest.</p> <p>Items may require the student to recognize equivalent expressions but may not require a student to perform an algebraic operation outside the context of Algebra 1.</p>
Stimulus Attributes	<p>Items assessing A-CED.1.1 and A-CED.1.4 must be placed in real-world context.</p> <p>Items assessing REI.2.3 do not have to be in a real-world context.</p>
Response Attributes	<p>Items assessing REI.2.3 should not require the student to write the equation.</p> <p>Items may require the student to choose an appropriate level of accuracy.</p> <p>Items may require the student to choose and interpret units.</p> <p>For A-CED.1.1 and A-CED.1.4, items may require the student to apply the basic modeling cycle.</p>
Calculator	Neutral
Sample Item	See Appendix A for the Practice Test item aligned to a standard in this group.

<p>MAFS.912.A-CED.1.2</p> <p>Also assesses MAFS.912.A-REI.3.5</p> <p>Also assesses MAFS.912.A-REI.3.6</p> <p>Also assesses MAFS.912.A-REI.4.12</p>	<p>Create equations in two or more variables to represent relationships between quantities; graph equations on coordinate axes with labels and scales.</p> <p>Prove that, given a system of two equations in two variables, replacing one equation by the sum of that equation and a multiple of the other produces a system with the same solutions.</p> <p>Solve systems of linear equations exactly and approximately (e.g., with graphs), focusing on pairs of linear equations in two variables.</p> <p>Graph the solutions to a linear inequality in two variables as a halfplane (excluding the boundary in the case of a strict inequality), and graph the solution set to a system of linear inequalities in two variables as the intersection of the corresponding half-planes.</p>
<p>Clarifications</p>	<p>Students will identify the quantities in a real-world situation that should be represented by distinct variables.</p> <p>Students will write a system of equations given a real-world situation.</p> <p>Students will graph a system of equations that represents a realworld context using appropriate axis labels and scale.</p> <p>Students will solve systems of linear equations.</p> <p>Students will provide steps in an algebraic proof that shows one equation being replaced with another to find a solution for a system of equations.</p> <p>Students will identify systems whose solutions would be the same through examination of the coefficients.</p> <p>Students will identify the graph that represents a linear inequality.</p> <p>Students will graph a linear inequality.</p> <p>Students will identify the solution set to a system of inequalities.</p> <p>Students will identify ordered pairs that are in the solution set of a system of inequalities.</p>

Assessment Limits	Items that require the student to write a system of equations using a real-world context are limited to a system of 2 x 2 linear equations.
	Items that require the student to solve a system of equations are limited to a system of 2 x 2 linear equations.
	Items that require the student to graph a system of equations or inequalities to find the solution are limited to a 2 x 2 system.
Stimulus Attributes	<p>Items assessing A-CED.1.2 must be placed in a real-world context.</p> <p>Items assessing A-REI.3.5 must be placed in a mathematical context.</p> <p>Items assessing A-REI.3.6 and A-REI.4.12 may be set in a real-world or mathematical context.</p> <p>Items may result in infinitely many solutions or no solution.</p>
Response Attributes	<p>Items may require the student to choose an appropriate level of accuracy.</p> <p>Items may require the student to choose and interpret the scale in a graph.</p> <p>Items may require the student to choose and interpret units.</p> <p>For A-CED.1.2, items may require the student to apply the basic modeling cycle.</p>
Calculator	Neutral
Sample Item	See Appendix A for the Practice Test items aligned to a standard in this group.
Students will graph the solution set to a system of	
	inequalities.

MAFS.912.A-CED.1.3	Represent constraints by equations or inequalities and by systems of equations and/or inequalities, and interpret solutions as viable or nonviable options in a modeling context. For example, represent inequalities describing nutritional and cost constraints on combinations of different foods.
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Clarifications	<p>Students will write constraints for a real-world context using equations, inequalities, a system of equations, or a system of inequalities.</p> <p>Students will interpret the solution of a real-world context as viable or not viable.</p>
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Assessment Limits	<p>In items that require the student to write an equation as a constraint, the equation may be a linear function.</p> <p>In items that require the student to write a system of equations to represent a constraint, the system is limited to two variables.</p> <p>In items that require the student to write a system of inequalities to represent a constraint, the system is limited to two variables.</p>
Stimulus Attributes	<p>Items must be set in a real-world context.</p> <p>Items may use function notation.</p>
Response Attributes	<p>Items may require the student to choose an appropriate level of accuracy.</p> <p>Items may require the student to choose and interpret the scale in a graph.</p> <p>Items may require the student to choose and interpret units.</p> <p>Items may require the student to apply the basic modeling cycle.</p>
Calculator	Neutral
Sample Item	See Appendix A for the Practice Test item aligned to this standard.

MAFS.912.A-REI.1.1	Explain each step in solving a simple equation as following from the equality of numbers asserted at the previous step, starting from the assumption that the original equation has a solution. Construct a viable argument to justify a solution method.
Clarifications	<p>Students will complete an algebraic proof of solving a linear equation.</p> <p>Students will construct a viable argument to justify a solution method.</p>
Assessment Limit	Items will not require the student to recall names of properties from memory.

Stimulus Attributes	<p>Items should be set in a mathematical context.</p> <p>Items may use function notation.</p> <p>Items should be linear equations in the form of $ax + b = c$, $a(bx + c) = d$, $ax + b = cx + d$, or $a(bx + c) = d(ex + f)$, where a, b, c, d, e, and f are rational numbers. Equations may be given in forms that are equivalent to these.</p> <p>Coefficients may be a rational number or a variable that represents any real number.</p> <p>Items should not require more than four procedural steps to reach a solution.</p>
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Response Attributes	<p>Items may ask the student to complete steps in a viable argument.</p> <p>Items should not ask the student to provide the solution.</p>
Calculator	Neutral
Sample Item	See Appendix A for the Practice Test item aligned to this standard.

MAFS.912.A-REI.2.4	<p>Solve quadratic equations in one variable.</p> <ol style="list-style-type: none">Use the method of completing the square to transform any quadratic equation in x into an equation of the form $(x - p)^2 = q$ that has the same solutions. Derive the quadratic formula from this form.Solve quadratic equations by inspection (e.g., for $x^2 = 49$), taking square roots, completing the square, the quadratic formula, and factoring, as appropriate to the initial form of the equation. Recognize when the quadratic formula gives complex solutions and write them as $a \pm bi$ for real numbers a and b.
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Clarifications	<p>Students will rewrite a quadratic equation in vertex form by completing the square.</p> <p>Students will use the vertex form of a quadratic equation to complete steps in the derivation of the quadratic formula.</p> <p>Students will solve a simple quadratic equation by inspection or by taking square roots.</p> <p>Students will solve a quadratic equation by choosing an appropriate method (i.e., completing the square, the quadratic formula, or factoring).</p>
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	<p>Students will validate why taking the square root of both sides when solving a quadratic equation will yield two solutions.</p> <p>Students will recognize that the quadratic formula can be used to find complex solutions.</p>
Assessment Limits	<p>In items that require the student to transform a quadratic equation to vertex form, b/a must be an even integer.</p> <p>In items that require the student to solve a simple quadratic equation by inspection or by taking square roots, equations should be in the form $ax^2 = c$ or $ax^2 + d = c$, where a, c, and d are rational numbers and where c is not an integer that is a perfect square and $c - d$ is not an integer that is a perfect square.</p> <p>In items that allow the student to choose the method for solving a quadratic equation, equations should be in the form $ax^2 + bx + c = d$, where a, b, c, and d are integers.</p>

	Items may require the student to recognize that a solution is nonreal but should not require the student to find a nonreal solution.
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Stimulus Attributes	<p>The formula must be given in the item for items that can only be solved using the quadratic formula.</p> <p>Items should be set in a mathematical context.</p>
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	<p>Items may use function notation.</p>
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Response Attributes	<p>Items may require the student to complete a missing step in the derivation of the quadratic formula.</p> <p>Items may require the student to provide an answer in the form $(x - p)^2 = q$.</p> <p>Items may require the student to recognize equivalent solutions to the quadratic equation.</p> <p>Responses with square roots should require the student to rewrite the square root so that the radicand has no square factors.</p>
Calculator	Neutral

Sample Item	See Appendix A for the Practice Test items aligned to this standard.
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MAFS.912.A-REI.4.11	Explain why the x-coordinates of the points where the graphs of the equations $y = f(x)$ and $y = g(x)$ intersect are the solutions of the equation $f(x) = g(x)$; find the solutions approximately (e.g., using technology to graph the functions, make tables of values, or find successive approximations). Include cases where $f(x)$ and/or $g(x)$ are linear, polynomial, rational, absolute value, exponential, and logarithmic functions.
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Also assesses MAFS.912.A-REI.4.10	Understand that the graph of an equation in two variables is the set of all its solutions plotted in the coordinate plane, often forming a curve (which could be a line).
Clarifications	<p>Students will find a solution or an approximate solution for $f(x) = g(x)$ using a graph.</p> <p>Students will find a solution or an approximate solution for $f(x) = g(x)$ using a table of values.</p> <p>Students will find a solution or an approximate solution for $f(x) = g(x)$ using successive approximations that give the solution to a given place value.</p> <p>Students will justify why the intersection of two functions is a solution to $f(x) = g(x)$.</p> <p>Students will verify if a set of ordered pairs is a solution of a function.</p>
Assessment Limits	<p>In items where a function is represented by an equation, the function may be an exponential function with no more than one translation, a linear function, or a quadratic function.</p> <p>In items where a function is represented by a graph or table, the function may be any continuous function.</p>
Stimulus Attributes	<p>Items may be set in a mathematical or real-world context.</p> <p>Items may use function notation.</p> <p>Items must designate the place value accuracy necessary for approximate solutions.</p>

Response Attributes	<p>Items may require the student to complete a missing step in an algebraic justification of the solution of $f(x) = g(x)$.</p> <p>Items may require the student to explain the role of the x-coordinate and the y-coordinate in the intersection of $f(x) = g(x)$.</p> <p>Items may require the student to explain a process.</p> <p>Items may require the student to record successive approximations used to find the solution of $f(x) = g(x)$.</p>
Calculator	Neutral
Sample Item	See Appendix A for the Practice Test item aligned to a standard in this group.

<p>MAFS.912.A-SSE.2.3</p>	<p>Choose and produce an equivalent form of an expression to reveal and explain properties of the quantity represented by the expression.</p> <ul style="list-style-type: none"> a. Factor a quadratic expression to reveal the zeros of the function it defines. b. Complete the square in a quadratic expression to reveal the maximum or minimum value of the function it defines. c. Use the properties of exponents to transform expressions for exponential functions. 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
<p>Also assesses</p>	<p>rate is 15%.</p>
<p>MAFS.912.A-SSE.1.1</p>	<p>Interpret expressions that represent a quantity in terms of its context.</p> <ul style="list-style-type: none"> a. Interpret parts of an expression, such as terms, factors, and coefficients. b. Interpret complicated expressions by viewing one or more of their parts as a single entity. For example, interpret $P(1+r)^n$ as
<p>Also assesses</p>	<p>the product of P and a factor not depending on P.</p>
<p>MAFS.912.A-SSE.1.2</p>	<p>Use the structure of an expression to identify ways to rewrite it. For example, see $x^4 - y^4$ as $(x^2)^2 - (y^2)^2$, thus recognizing it as a difference of squares that can be factored as $(x^2 - y^2)(x^2 + y^2)$.</p>

Clarifications	<p>Students will use equivalent forms of a quadratic expression to interpret the expression's terms, factors, zeros, maximum, minimum, coefficients, or parts in terms of the real-world situation the expression represents.</p> <p>Students will use equivalent forms of an exponential expression to interpret the expression's terms, factors, coefficients, or parts in terms of the real-world situation the expression represents.</p> <p>Students will rewrite algebraic expressions in different equivalent forms by recognizing the expression's structure.</p> <p>Students will rewrite algebraic expressions in different equivalent forms using factoring techniques (e.g., common factors, grouping, the difference of two squares, the sum or difference of two cubes, or a combination of methods to factor completely) or simplifying expressions (e.g., combining like terms, using the distributive property, and other operations with polynomials).</p>
Assessment Limits	<p>Items that require the student to transform a quadratic equation to vertex form, b/a must be an even integer.</p> <p>For A-SSE.1.1, items should not ask the student to interpret zeros, the vertex, or axis of symmetry when the quadratic expression is in the form $ax^2 + bx + c$ (see F-IF.3.8).</p>

	<p>For A-SSE.2.3c and A-SSE.1.1, exponential expressions are limited to simple growth and decay. If the number e is used then its approximate value should be given in the stem.</p> <p>For A-SSE.2.3a and A-SSE.1.1, quadratic expressions should be univariate.</p> <p>For A-SSE.2.3b, items should only ask the student to interpret the y-value of the vertex within a real-world context.</p>
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	<p>For A-SSE.2.3, items should require the student to choose how to rewrite the expression.</p> <p>In items that require the student to write equivalent expressions by factoring, the given expression may</p> <ul style="list-style-type: none">• have integral common factors• be a difference of two squares up to a degree of 4• be a quadratic, $ax^2 + bx + c$, where $a > 0$ and a, b, and c are integers
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	<ul style="list-style-type: none">• be a polynomial of four terms with a leading coefficient of 1 and highest degree of 3.
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Stimulus Attributes	<p>Items assessing A-SSE.2.3 and A-SSE.1.1 must be set in a real-world context.</p> <p>Items that require an equivalent expression found by factoring may be in a real-world or mathematical context.</p> <p>Items should contain expressions only.</p> <p>Items may require the student to provide the answer in a specific form.</p>
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Algebra 1 EOC Item Specifications
Florida Standards Assessments

Response Attributes	<p>Items may require the student to choose an appropriate level of accuracy.</p> <p>Items may require the student to choose and interpret units.</p> <p>For A-SSE.1.1 and A-SSE.2.3, items may require the student to apply the basic modeling cycle.</p>
Calculator	Neutral

Algebra 1 EOC Item Specifications

Florida Standards Assessments

Sample Item	See Appendix A for the Practice Test item aligned to a standard in this group.
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MAFS.912.F-BF.2.3	<p>Identify the effect on the graph of replacing $f(x)$ by $f(x) + k$, $kf(x)$, $f(kx)$, and $f(x + k)$ for specific values of k (both positive and negative); find the value of k given the graphs.</p> <p>Experiment with cases and illustrate an explanation of the effects on the graph using technology. Include recognizing even and odd functions from their graphs and algebraic expressions for them.</p>
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Clarifications	<p>Students will determine the value of k when given a graph of the function and its transformation.</p> <p>Students will identify differences and similarities between a function and its transformation.</p> <p>Students will identify a graph of a function given a graph or a table of a transformation and the type of transformation that is represented.</p>
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	<p>Students will graph by applying a given transformation to a function.</p> <p>Students will identify ordered pairs of a transformed graph.</p> <p>Students will complete a table for a transformed function.</p>
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Assessment Limits	<p>Functions represented algebraically are limited to linear, quadratic, or exponential.</p> <p>Functions represented using tables or graphs are not limited to linear, quadratic, or exponential.</p> <p>Functions may be represented using tables or graphs.</p> <p>Functions may have closed domains.</p>
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	<p>Functions may be discontinuous.</p> <p>Items should have a single transformation.</p>
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Algebra 1 EOC Item Specifications
Florida Standards Assessments

Stimulus Attributes	<p>Items should be given in a mathematical context.</p> <p>Items must use function notation.</p> <p>Items may present a function using an equation, a table of values, or a graph.</p>
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Response Attributes	<p>Items may require the student to explain or justify a transformation that has been applied to a function.</p> <p>Items may require the student to explain how a graph is affected by a value of k.</p> <p>Items may require the student to find the value of k.</p> <p>Items may require the student to complete a table of values.</p>
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Algebra 1 EOC Item Specifications
Florida Standards Assessments

Calculator	Neutral
Sample Item	See Appendix A for the Practice Test item aligned to this standard.

MAFS.912.F-IF.1.2	Use function notation, evaluate functions for inputs in their domains, and interpret statements that use function notation in terms of a context.
Also assesses MAFS.912.F-IF.1.1	Understand that a function from one set (called the domain) to another set (called the range) assigns to each element of the domain exactly one element of the range. If f is a function and x is an element of its domain, then $f(x)$ denotes the

	output of f corresponding to the input x . The graph of f is the graph of the equation $y = f(x)$.	
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Also assesses MAFS.912.F-IF.2.5	Relate the domain of a function to its graph and, where applicable, to the quantitative relationship it describes. For example, if the function $h(n)$ gives the number of personhours it takes to assemble n engines in a factory, then the positive integers would be an appropriate domain for the function.
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Clarifications	<p>Students will evaluate functions that model a real-world context for inputs in the domain.</p> <p>Students will interpret the domain of a function within the real-world context given.</p> <p>Students will interpret statements that use function notation within the real-world context given.</p>
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	<p>Students will use the definition of a function to determine if a relationship is a function, given tables, graphs, mapping diagrams, or sets of ordered pairs.</p> <p>Students will determine the feasible domain of a function that models a real-world context.</p>
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Assessment Limits	<p>For F-IF.1.2, in items that require the student to find a value given a function, the following function types are allowed: quadratic, polynomials whose degrees are no higher than 6, square root, cube root, absolute value, exponential except for base e, and simple rational.</p> <p>Items may present relations in a variety of formats, including sets of ordered pairs, mapping diagrams, graphs, and input/output models.</p>
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	<p>In items requiring the student to find the domain from graphs, relationships may be on a closed or open interval.</p> <p>In items requiring the student to find domain from graphs, relationships may be discontinuous.</p> <p>Items may not require the student to use or know interval notation.</p>
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Stimulus Attributes	<p>For F-IF.1.1, items may be set in a real-world or mathematical context.</p> <p>For F-IF.1.2, items that require the student to evaluate may be written in a mathematical or real-world context. Items that require the student to interpret must be set in a realworld context.</p> <p>For F-IF.2.5, items must be set in a real-world context.</p> <p>Items must use function notation.</p>
Response Attributes	<p>For F-IF.2.5, items may require the student to apply the basic modeling cycle.</p> <p>Items may require the student to choose an appropriate level of accuracy.</p> <p>Items may require the student to choose and interpret the scale in a graph.</p> <p>Items may require the student to choose and interpret units.</p> <p>Items may require the student to write domains using inequalities.</p>
Calculator	Neutral
Sample Item	See Appendix A for the Practice Test item aligned to a standard in this group.

<p>MAFS.912.F-IF.2.4</p> <p>Also assesses MAFS.912.F-IF.3.9</p>	<p>For a function that models a relationship between two quantities, interpret key features of graphs and tables in terms of the quantities and sketch graphs showing key features given a verbal description of the relationship. Key features include: intercepts; intervals where the function is increasing, decreasing, positive, or negative; relative maximums and minimums; symmetries; end behavior; and periodicity.</p> <p>Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions). For example, given a graph of one quadratic function and an algebraic expression for another, say which has the larger maximum.</p>
<p>Clarifications</p>	<p>Students will determine and relate the key features of a function within a real-world context by examining the function's table.</p> <p>Students will determine and relate the key features of a function within a real-world context by examining the function's graph.</p> <p>Students will use a given verbal description of the relationship between two quantities to label key features of a graph of a function that model the relationship.</p> <p>Students will differentiate between different types of functions using a variety of descriptors (e.g., graphically, verbally, numerically, and algebraically).</p> <p>Students will compare and contrast properties of two functions using a variety of function representations (e.g., algebraic, graphic, numeric in tables, or verbal descriptions).</p>

<p>Assessment Limits</p>	<p>Functions represented algebraically are limited to linear, quadratic, or exponential.</p> <p>Functions may be represented using tables, graphs or verbally. Functions represented using these representations are not limited to linear, quadratic or exponential.</p> <p>Functions may have closed domains.</p> <p>Functions may be discontinuous.</p> <p>Items may not require the student to use or know interval notation.</p> <p>Key features include x-intercepts, y-intercepts; intervals where the function is increasing, decreasing, positive, or negative; relative maximums and minimums; symmetries; and end behavior.</p>
<p>Stimulus Attributes</p>	<p>For F-IF.2.4, items should be set in a real-world context.</p> <p>For F-IF.3.9, items may be set in a real-world or mathematical context.</p> <p>Items may use verbal descriptions of functions.</p> <p>Items must use function notation.</p>

Response Attributes	<p>For F-IF.2.4, items may require the student to apply the basic modeling cycle.</p> <p>Items may require the student to write intervals using inequalities.</p> <p>Items may require the student to choose an appropriate level of accuracy.</p> <p>Items may require the student to choose and interpret the scale in a graph.</p> <p>Items may require the student to choose and interpret units.</p>
Calculator	Neutral
Sample Item	See Appendix A for the Practice Test item aligned to a standard in this group.

MAFS.912.F-IF.2.6	Calculate and interpret the average rate of change of a function (presented symbolically or as a table) over a specified interval. Estimate the rate of change from a graph.
Also assesses MAFS.912.S-ID.3.7	Interpret the slope (rate of change) and the intercept (constant term) of a linear model in the context of the data.

<p>Clarifications</p>	<p>Students will calculate the average rate of change of a continuous function that is represented algebraically, in a table of values, on a graph, or as a set of data.</p> <p>Students will interpret the average rate of change of a continuous function that is represented algebraically, in a table of values, on a graph, or as a set of data with a realworld context.</p> <p>Students will interpret the y-intercept of a linear model that represents a set of data with a real-world context.</p>
<p>Assessment Limits</p>	<p>Items requiring the student to calculate the rate of change will give a specified interval that is both continuous and differentiable.</p> <p>Items should not require the student to find an equation of a line.</p> <p>Items assessing S-ID.3.7 should include data sets. Data sets must contain at least six data pairs. The linear function given in the item should be the regression equation.</p> <p>For items assessing S-ID.3.7, the rate of change and the yintercept should have a value with at least a hundredths place value.</p>

	Items assessing F-IF.2.6 should not be linear.
Stimulus Attributes	<p>Items may require the student to apply the basic modeling cycle.</p> <p>Items should be set in a real-world context.</p> <p>Items must use function notation.</p> <p>Items may require the student to choose and interpret variables.</p>
Response Attributes	<p>Items may require the student to choose an appropriate level of accuracy.</p> <p>Items may require the student to choose and interpret the scale in a graph.</p> <p>Items may require the student to choose and interpret units.</p>
Calculator	Neutral

Sample Item	See Appendix A for the Practice Test item aligned to a standard in this group.
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<p>MAFS.912.F-IF.3.8</p> <p>Also assesses MAFS.912.A-APR.2.3</p>	<p>Write a function defined by an expression in different but equivalent forms to reveal and explain different properties of the function.</p> <ul style="list-style-type: none"> a. Use the process of factoring and completing the square in a quadratic function to show zeros, extreme values, and symmetry of the graph, and interpret these in terms of a context. b. Use the properties of exponents to interpret expressions for exponential functions. For example, identify percent rate of change in functions such as $y = (1.02)^t, y = (0.97)^t,$ $y = (1.01)^{12t}, \text{ and } y = (1.2)^{t/10}$ and classify them as representing exponential growth or decay. <p>Identify zeros of polynomials when suitable factorizations are available and use the zeros to construct a rough graph of the function defined by the polynomial.</p>
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<p>Also assesses MAFS.912.F-IF.3.7</p>	<p>Graph functions expressed symbolically and show key features of the graph by hand in simple cases and using technology for more complicated cases.</p> <ul style="list-style-type: none"> a. Graph linear and quadratic functions and show intercepts, maxima, and minima. b. Graph square root, cube root, and piecewise-defined functions, including step functions and absolute value functions. c. Graph polynomial functions, identifying zeros when suitable factorizations are available and showing end behavior. d. Graph rational functions, identifying zeros and asymptotes when suitable factorizations are available and showing end behavior. e. Graph exponential and logarithmic functions, showing intercepts and end behavior, and trigonometric functions, showing period, midline, and amplitude and using phase shift.
<p>Clarifications</p>	<p>Students will identify zeros, extreme values, and symmetry of a quadratic function written symbolically.</p> <p>Students will classify the exponential function as exponential growth or decay by examining the base, and students will give the rate of growth or decay.</p> <p>Students will use the properties of exponents to interpret exponential expressions in a real-world context.</p>

	<p>Students will write an exponential function defined by an expression in different but equivalent forms to reveal and explain different properties of the function, and students will determine which form of the function is the most appropriate for interpretation for a realworld context.</p> <p>Students will find the zeros of a polynomial function when the polynomial is in factored form.</p> <p>Students will create a rough graph of a polynomial function in factored form by examining the zeros of the function.</p> <p>Students will use the x-intercepts of a polynomial function and end behavior to graph the function.</p> <p>Students will identify the x- and y-intercepts and the slope of the graph of a linear function.</p> <p>Students will identify zeros, extreme values, and symmetry of the graph of a quadratic function.</p> <p>Students will identify intercepts and end behavior for an exponential function.</p> <p>Students will graph a linear function using key features.</p> <p>Students will graph a quadratic function using key features.</p> <p>Students will graph an exponential function using key features.</p>
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	<p>Students will identify and interpret key features of a graph within the real-world context that the function represents.</p>
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Assessment Limits	<p>For F-IF.3.7, items are limited to linear, quadratic, and exponential functions.</p> <p>For A-APR.2.3, the leading coefficient should be an integer and the polynomial's degree is restricted to 3 or 4. The polynomial function should not have a zero with multiplicity. The polynomial should be given in factored form.</p> <p>For F-IF.3.8a, items that require the student to transform a quadratic equation to vertex form, b/a must be an even integer.</p> <p>For F-IF.3.7e and F-IF.3.8b, exponential functions are limited to simple exponential growth and decay functions and to exponential functions with one translation. Base e should not be used.</p>
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	<p>For F-IF.3.8, items may specify a required form using an equation or using common terminology such as standard form. In items that require the student to interpret the vertex or a zero of a quadratic function within a real-world context, the student should interpret both the x-value and the y-value.</p> <p>For F-IF.3.7a, quadratic functions that are given in the form $y = ax^2 + bx + c$, a, b, and c must be integers. Quadratic functions given in vertex form $y = a(x - h)^2 + k$, a, h, and k must be integers. Quadratic functions given in other forms should be able to be rewritten and adhere to one of the two previous forms.</p>
Stimulus Attributes	<p>Items may require the student to identify a correct graph.</p> <p>Items may be set in a mathematical or real-world context.</p> <p>For F-IF.3.8, items must use function notation.</p> <p>For F-IF.3.7, items may use an equation or a function.</p> <p>Items should not require the student to complete a sign chart for a polynomial.</p>

Response Attributes	<p>For F-IF.3.7, items may require the student to apply the basic modeling cycle.</p> <p>Items may require the student to choose an appropriate level of accuracy.</p> <p>Items may require the student to choose and interpret the scale in a graph.</p> <p>Items may require the student to choose and interpret units.</p> <p>Items may require the student to provide the answer in a specific form.</p> <p>Responses with square roots should require the student to rewrite the square root so that the radicand has no square factors.</p>
Calculator	Neutral
Sample Item	See Appendix A for the Practice Test items aligned to a standard in this group.

MAFS.912.F-LE.1.1	Distinguish between situations that can be modeled with linear functions and with exponential functions. <ul style="list-style-type: none">a. Prove that linear functions grow by equal differences over equal intervals and that exponential functions grow by equal factors over equal intervals.b. Recognize situations in which one quantity changes at a constant rate per unit interval relative to another.c. Recognize situations in which a quantity grows or decays by a constant percent rate per unit interval relative to another.
Also assesses MAFS.912.F-LE.2.5	Interpret the parameters in a linear or exponential function in terms of a context.
Clarifications	<p>Students will determine whether the real-world context may be represented by a linear function or an exponential function and give the constant rate or the rate of growth or decay.</p> <p>Students will choose an explanation as to why a context may be modeled by a linear function or an exponential function.</p> <p>Students will interpret the rate of change and intercepts of a linear function when given an equation that models a realworld context.</p> <p>Students will interpret the x-intercept, y-intercept, and/or rate of growth or decay of an exponential function given in a real-world context.</p>
Assessment Limit	Exponential functions should be in the form $a(b)^x + k$.

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Stimulus Attributes	<p>Items should be set in a real-world context.</p> <p>Items must use function notation.</p>
Response Attributes	<p>Items may require the student to apply the basic modeling cycle.</p> <p>Items may require the student to choose a parameter that is described within the real-world context.</p> <p>Items may require the student to choose an appropriate level of accuracy.</p> <p>Items may require the student to choose and interpret the scale in a graph.</p> <p>Items may require the student to choose and interpret units.</p>
Calculator	Neutral
Sample Item	See Appendix A for the Practice Test items aligned to a standard in this group.

MAFS.912.F-LE.1.2	Construct linear and exponential functions, including arithmetic and geometric sequences, given a graph, a description of a relationship, or two input-output pairs (including reading these from a table).
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Also assesses MAFS.912.F-BF.1.1	<p>Write a function that describes a relationship between two quantities.</p> <ol style="list-style-type: none">Determine an explicit expression, a recursive process, or steps for calculation from a context.Combine standard function types using arithmetic operations. For example, build a function that models the temperature of a cooling body by adding a constant function to a decaying exponential, and relate these functions to the model.Compose functions. For example, if $T(y)$ is the temperature in the atmosphere as a function of height, and $h(t)$ is the height of a weather balloon as a function of time, then $T(h(t))$ is the temperature at the location of the weather balloon as a function of time.
Also assesses MAFS.912.F-IF.1.3	<p>Recognize that sequences are functions, sometimes defined recursively, whose domain is a subset of the integers. For example, the Fibonacci sequence is defined recursively by $f(0) = f(1) = 1$, $f(n+1) = f(n) + f(n-1)$ for $n \geq 1$.</p>

Clarifications	<p>Students will write a linear function, an arithmetic sequence, an exponential function, or a geometric sequence when given a graph that models a real-world context.</p> <p>Students will write a linear function, an arithmetic sequence, an exponential function, or a geometric sequence when given a verbal description of a real-world context.</p> <p>Students will write a linear function, an arithmetic sequence, an exponential function, or a geometric sequence when given a table of values or a set of ordered pairs that model a realworld context.</p> <p>Students will write an explicit function, define a recursive process, or complete a table of calculations that can be used to mathematically define a real-world context.</p> <p>Students will write a function that combines functions using arithmetic operations and relate the result to the context of the problem.</p> <p>Students will write a function to model a real-world context by composing functions and the information within the context.</p> <p>Students will write a recursive definition for a sequence that is presented as a sequence, a graph, or a table.</p>
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Assessment Limits	<p>In items where the student must write a function using arithmetic operations or by composing functions, the student should have to generate the new function only.</p> <p>In items where the student constructs an exponential function, a geometric sequence, or a recursive definition from input-output pairs, at least two sets of pairs must have consecutive inputs.</p> <p>In items that require the student to construct arithmetic or geometric sequences, the real-world context should be discrete.</p> <p>In items that require the student to construct a linear or exponential function, the real-world context should be continuous.</p>
Stimulus Attributes	<p>For F-LE.1.2 and F-BF.1.1, items should be set in a realworld context.</p> <p>For F-IF.1.3, items may be set in a mathematical or realworld context.</p> <p>Items must use function notation.</p> <p>In items where the student builds a function using arithmetic operations or by composition, the functions may be given using verbal descriptions, function notation or as equations.</p>

Response Attributes	<p>For F-BF.1.1b and c, the student may be asked to find a value.</p> <p>For F-LE.1.2 and F-BF.1.1, items may require the student to apply the basic modeling cycle.</p> <p>In items where the student writes a recursive formula, the student may be expected to give both parts of the formula.</p> <p>The student may be required to determine equivalent recursive formulas or functions.</p> <p>Items may require the student to choose an appropriate level of accuracy.</p> <p>Items may require the student to choose and interpret the scale in a graph.</p> <p>Items may require the student to choose and interpret units.</p>
Calculator	Neutral
Sample Item	See Appendix A for the Practice Test items aligned to a standard in this group.

MAFS.912.F-LE.1.3	Observe using graphs and tables that a quantity increasing exponentially eventually exceeds a quantity increasing linearly, quadratically, or (more generally) as a polynomial function.
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Clarifications	<p>Students will compare a linear function and an exponential function given in real-world context by interpreting the functions' graphs.</p> <p>Students will compare a linear function and an exponential function given in a real-world context through tables.</p> <p>Students will compare a quadratic function and an exponential function given in real-world context by interpreting the functions' graphs.</p> <p>Students will compare a quadratic function and an exponential function given in a real-world context through tables.</p>
Assessment Limits	<p>Exponential functions represented in graphs or tables should be able to be written in the form $a(b)^x + k$.</p> <p>For exponential relationships, tables or graphs must contain at least one pair of consecutive values.</p>
Stimulus Attributes	<p>Items should give a graph or a table.</p> <p>Items should be given in a real-world context.</p> <p>Items must use function notation.</p>

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Response Attributes	<p>Items may require the student to apply the basic modeling cycle.</p> <p>Items may require the student to choose an appropriate level of accuracy.</p> <p>Items may require the student to choose and interpret the scale in a graph.</p> <p>Items may require the student to choose and interpret units.</p>
Calculator	Neutral
Sample Item	See Appendix A for the Practice Test item aligned to this standard.

<p>MAFS.912.N-RN.1.2</p> <p>Also assesses MAFS.912.N-RN.1.1</p>	<p>Rewrite expressions involving radicals and rational exponents using the properties of exponents.</p> <p>Explain how the definition of the meaning of rational exponents follows from extending the properties of integer exponents to those values, allowing for a notation for radicals in terms of rational exponents. For example, we define $5^{\frac{1}{3}}$ to be the cube root of 5</p> <p>$5^{\frac{1}{3}}$ because we want $(5^{\frac{1}{3}})^3 = 5^{(\frac{1}{3})^3}$ to hold, so $(5^{\frac{1}{3}})^3$ must equal 5.</p>
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Also assesses MAFS.912.N-RN.2.3	Explain why the sum or product of two rational numbers is rational; that the sum of a rational number and an irrational number is irrational; and that the product of a nonzero rational number and an irrational number is irrational.
Clarifications	<p>Students will use the properties of exponents to rewrite a radical expression as an expression with a rational exponent.</p> <p>Students will use the properties of exponents to rewrite an expression with a rational exponent as a radical expression.</p> <p>Students will apply the properties of operations of integer exponents to expressions with rational exponents.</p> <p>Students will apply the properties of operations of integer exponents to radical expressions.</p> <p>Students will write algebraic proofs that show that a sum or product of two rational numbers is rational; that the sum of a rational number and an irrational number is irrational; and that the product of a nonzero rational number and an irrational number is irrational.</p>
Assessment Limits	<p>Expressions should contain no more than three variables.</p> <p>For N-RN.1.2, items should not require the student to do more than two operations.</p>
Stimulus Attribute	Items should be set in a mathematical context.

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Response Attributes	<p>Items may require the student to complete an algebraic proof.</p> <p>Items may require the student to determine equivalent expressions or equations.</p> <p>Responses with square roots should require the student to rewrite the square root so that the radicand has no square factors.</p>
Calculator	Neutral
Sample Item	See Appendix A for the Practice Test item aligned to a standard in this group.

MAFS.912.S-ID.1.1	Represent data with plots on the real number line (dot plots, histograms, and box plots).
Clarification	Students will represent data using a dot plot, a histogram, or a box plot.
Assessment Limits	None
Stimulus Attribute	Items should use real-world data and be set in a real-world context.

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Response Attributes	<p>Items may require the student to apply the basic modeling cycle.</p> <p>Items may require the student to choose an appropriate level of accuracy.</p> <p>Items may require the student to choose and interpret the scale in a graph.</p> <p>Items may require the student to choose and interpret units.</p>
Calculator	Neutral
Sample Item	See Appendix A for the Practice Test item aligned to this standard.

<p>MAFS.912.S-ID.1.2</p> <p>Also assesses MAFS.912.S-ID.1.3</p>	<p>Use statistics appropriate to the shape of the data distribution to compare center (median, mean) and spread (interquartile range, standard deviation) of two or more different data sets.</p> <p>Interpret differences in shape, center, and spread in the context of the data sets, accounting for possible effects of extreme data points (outliers).</p>
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Clarifications	<p>Students will identify similarities and differences in shape, center, and spread when given two or more data sets.</p> <p>Students will predict the effect that an outlier will have on the shape, center, and spread of a data set.</p> <p>Students will interpret similarities and differences in shape, center, and spread when given two or more data sets within the real-world context given.</p>
Assessment Limits	<p>Items may require the student to calculate mean, median, and interquartile range for the purpose of identifying similarities and differences.</p> <p>Items should not require the student to calculate the standard deviation.</p> <p>Items should not require the student to fit normal curves to data. Data distributions should be approximately normal.</p> <p>Data sets should be real-world and quantitative.</p>
Stimulus Attributes	<p>In items that require standard deviation, the value should be given in the stem.</p> <p>Items should use real-world data and be set in a real-world context.</p>

Response Attributes	<p>Items may require the student to apply the basic modeling cycle.</p> <p>Items may require the student to choose an appropriate level of accuracy.</p> <p>Items may require the student to choose and interpret the scale in a graph.</p> <p>Items may require the student to choose and interpret units.</p> <p>Items should not require the student to determine whether a distribution is left- or right-skewed.</p>
Calculator	Neutral
Sample Item	See Appendix A for the Practice Test items aligned to a standard in this group.

MAFS.912.S-ID.2.5	<p>Summarize categorical data for two categories in two-way frequency tables. Interpret relative frequencies in the context of the data (including joint, marginal, and conditional relative frequencies).</p> <p>Recognize possible associations and trends in the data.</p>
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Clarifications	<p>Students will create or complete a two-way frequency table to summarize categorical data.</p> <p>Students will determine if associations/trends are appropriate for the data.</p> <p>Students will interpret data displayed in a two-way frequency table.</p> <p>Students will calculate joint, marginal, and conditional relative frequencies.</p>
Assessment Limit	<p>In data with only two categorical variables, items should require the student to determine relative frequencies and use the frequencies to complete the table or to answer questions.</p>
Stimulus Attribute	<p>Items should use real-world data and be set in a real-world context.</p>
Response Attributes	<p>Items may require the student to apply the basic modeling cycle.</p> <p>Items may require the student to choose an appropriate level of accuracy.</p> <p>Items may require the student to choose and interpret units.</p>
Calculator	Neutral

Sample Item	See Appendix A for the Practice Test item aligned to this standard.
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MAFS.912.S-ID.2.6	Represent data on two quantitative variables on a scatter plot, and describe how the variables are related. <ul style="list-style-type: none">a. Fit a function to the data; use functions fitted to data to solve problems in the context of the data. Use given functions or choose a function suggested by the context. Emphasize linear and exponential models.b. Informally assess the fit of a function by plotting and analyzing residuals.c. Fit a linear function for a scatter plot that suggests a linear association.
Also assesses MAFS.912.S-ID.3.8	Compute (using technology) and interpret the correlation coefficient of a linear fit.
Also assesses MAFS.912.S-ID.3.9	Distinguish between correlation and causation.

Clarifications	<p>Students will represent data on a scatter plot.</p> <p>Students will identify a linear function, a quadratic function, or an exponential function that was found using regression.</p> <p>Students will use a regression equation to solve problems in the context of the data.</p> <p>Students will calculate residuals.</p> <p>Students will create a residual plot and determine whether a function is an appropriate fit for the data.</p> <p>Students will determine the fit of a function by analyzing the correlation coefficient.</p> <p>Students will distinguish between situations where correlation does not imply causation.</p> <p>Students will distinguish variables that are correlated because one is the cause of another.</p>
Assessment Limit	In items that require the student to interpret or use the correlation coefficient, the value of the correlation coefficient must be given in the stem.
Stimulus Attribute	Items should use real-world data and be set in a real-world context.

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Response Attributes	<p>Items may require the student to apply the basic modeling cycle.</p> <p>Items may require the student to choose an appropriate level of accuracy.</p> <p>Items may require the student to choose and interpret the scale in a graph.</p>
	Items may require the student to choose and interpret units.
Calculator	Neutral
Sample Item	See Appendix A for the Practice Test item aligned to a standard in this group.

APPENDIX A

The chart below contains information about the standard alignment for the items in the Algebra 1 Computer-Based Practice Test at <http://fsassessments.org/students-and-families/practice-tests/>.

Content Standard	Item Type	Computer-Based Practice Test Item Number
MAFS.912.A-APR.1.1	GRID	8
MAFS.912.A-CED.1.1	GRID	20
MAFS.912.A-CED.1.2	Equation Editor	17
MAFS.912.A-REI.3.5	Multiselect	12
MAFS.912.A-REI.3.6	Equation Editor	9
MAFS.912.A-REI.3.6	Equation Editor and Equation Editor	31
MAFS.912.A-REI.4.12	GRID	29
MAFS.912.A-CED.1.3	Multiple Choice	14
MAFS.912.A-REI.1.1	Hot Text Selectable	6
MAFS.912.A-REI.2.4a	GRID	11
MAFS.912.A-REI.2.4b	Equation Editor	16
MAFS.912.A-REI.4.11	Equation Editor	7

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MAFS.912.A-SSE.2.3	Hot Text Selectable	19
MAFS.912.F-BF.2.3	Table Item	3
MAFS.912.F-IF.2.5	Multiple Choice	25
MAFS.912.F-IF.2.4	GRID	18
MAFS.912.F-IF.2.6	Multiple Choice	22
MAFS.912.F-IF.3.8a	Multiselect	5
MAFS.912.F-IF.3.8a	Equation Editor	27
MAFS.912.F-LE.1.1a	Editing Task Choice and Multiple Choice	15
MAFS.912.F-LE.2.5	GRID	13
MAFS.912.F-LE.1.2	Equation Editor	1
MAFS.912.F-BF.1.1a	Equation Editor	24
MAFS.912.F-IF.1.3	Editing Task Choice	30
MAFS.912.F-LE.1.3	Open Response	10
MAFS.912.N-RN.1.2	Multiple Choice	2
MAFS.912.S-ID.1.1	GRID	4
MAFS.912.S-ID.1.2	Matching Item	21
MAFS.912.S-ID.1.2	Editing Task Choice	28

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MAFS.912.S-ID.2.5	Table Item	23
MAFS.912.S-ID.2.6	Open Response	26

APPENDIX B: REVISIONS

Page(s)	Revision	Date
14	Updated an assessment limit.	September 2018
15	Updated an assessment limit and removed an assessment limit.	September 2018
16	Updated assessment limits.	September 2018
22	Corrected typo in assessment limits.	September 2018

23	Corrected typo in assessment limits and updated an assessment limit.	September 2018
29	Updated stimulus attribute.	September 2018
30	Updated stimulus attribute.	September 2018
32	Added assessment limit.	September 2018
33	Updated a stimulus attribute and added a stimulus attribute.	September 2018
34	Updated stimulus attribute.	September 2018
36	Updated stimulus attributes and added a stimulus attribute.	September 2018
37	Updated stimulus attribute.	September 2018
40	Added response attribute.	September 2018
44	Appendix A updated to show Fall 2018 Practice Test information	September 2018

Algebra 1 EOC FSA Mathematics Reference Sheet

Customary Conversions

1 foot = 12 inches
1 yard = 3 feet
1 mile = 5,280 feet
1 mile = 1,760 yards

1 cup = 8 fluid ounces
1 pint = 2 cups
1 quart = 2 pints
1 gallon = 4 quarts

1 pound = 16 ounces
1 ton = 2,000 pounds

Metric Conversions

1 meter = 100 centimeters
1 meter = 1000 millimeters 1 kilometer = 1000 meters

1 liter = 1000 milliliters

1 gram = 1000 milligrams 1 kilogram = 1000 grams

Time Conversions

1 minute = 60 seconds
1 hour = 60 minutes
1 day = 24 hours
1 year = 365 days
1 year = 52 weeks

