ALGEBRA I: Standards Alignment Document

This document aligns the 9th grade Algebra 1 Texas Essential Knowledge and Skills (TEKS) to their Common Core State Standards (CCSS) equivalent. If you teach outside of Texas, you may use this document to find aligned activities for your students.

Description	Texas TEKS	Common Core CCSS
Find the domain and Range of Linear Functions and write is using inequalities.	MA.A.2A	HSF.IF.A.1, HSF.IF.B.5
Write the equation of a line given a point and the slope or given two points.	MA.A.2B	HSA-CED.A.1
Write the equation of a line given a table, a graph, and a verbal description.	MA.A.2C	HSA-CED.A.1, HSA-CED.A.2, HSA-CED.A.3
Write and solve equations involving direct variation.	MA.A.2D	HSA-CED.A.2,
Write the equation of a line that is parallel to a given line and passes through a given point.	MA.A.2E	HSA-CED.A.2, HSA.REI.D.1, HSF-LE.A.2, HSG-GPE.B.5
Write the equation of a line that is perpendicular to a given line and passes through a given point.	MA.A.2F	HSA-CED.A.2, HSA.REI.D.1, HSF-LE.A.2, HSG-GPE.B.5
Write the equation and determine the slope of lines parallel or perpendicular to the x- and y axis.	MA.A.2G	HSA-CED.A.2, HSF.IF.B.4, HSF-LE.A.2, HSG-GPE.B.5
Writing linear inequalities from a table, a graph, or a verbal description.	MA.A.2H	HSA-CED.A.1, HSA-CED.A.3
Write systems of equations given a table, a graph, and a verbal description.	MA.A.2I	HSA-CED.A.2

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Determine the slope of a line given a table, graph, 2 points, and/or an equation.	MA.A.3A	8.F.B.4, HSF.IF.B.4, HSF-IF.B.6
Calculate the rate of change given a table, graph, or word problem.	MA.A.3B	HSF-IF.B.6 8.F.A.2
Graph linear functions and identify key features: x-intercept/zero, y-intercept, and slope.	MA.A.3C	HSA-CED.A.2, HSF.IF.B.4, HSF.IF.C.7a, 8.EE.B.5, 8.F.B.5
Graphing linear inequalities on the coordinate plane.	MA.A.3D	HSA-REI.D.12
Linear Parent Functions	MA.A.3E	HSF-BF.B.3, HSF-ID.C.9
Graph systems of equations and determine solutions if they exist.	MA.A.3F	HSA-CED.A.3 HSA-REI.C.6, HSA-REI.D.11 8.EE.C.8a
Estimate graphically solutions to systems of equations.	MA.A.3G	HSA-CED.A.3, HSA-REI.C.6, HSA-REI.D.11 8.EE.C.8a
Solve system of two linear inequalities.	MA.A.3H	HSA-REI.D.12
Find and interpret the correlation coefficient (r).	MA.A.4A	HSS-ID.C.8 8.SP.A.1 8.SP.A.2
Association and causation in real-world problems.	MA.A.4B	HSS-ID.C.9

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Write equations for lines of best fit and use them to make predictions for data.	MA.A.4C	HSS-ID.B.6a, HSS-ID.B.6c, HSS-ID.C.7 8.SP.A.3
Solve linear equations involving the distributive property and variables on both sides.	MA.A.5A	HSA-CED.A.1, HSA-REI.A.1, HSA-REI.B.3, 8.EE.C.7
Solve linear inequalities involving the distributive property and variables on both sides.	MA.A.5B	HSA-REI.B.3
Solve system of two linear equations with two variables.	MA.A.5C	HSN-Q.A.2, HSA-REI.C.5, HSA-REI.C.6, HSA-CED.A.3 8.EE.C.8
Determine the domain and range of quadratic functions.	MA.A.6A	HSF.IF.A.1, HSF.IF.B.5
Write quadratic equations given the vertex and another point on the graph.	MA.A.6B	HSF.IF.C.7a, HSG-GPE.A.2
Write quadratic functions given real solutions.	MA.A.6C	HSA-APR.B.2
Graph quadratic functions and identify key features (intercepts, zeros, min/max values, vertex, axis of symmetry).	MA.A.7A	HSA-CED.A.2, HSF.IF.B.4, HSF.IF.C.7a, HSF.IF.C.8a
Describe relationship between linear factors of a quadratic expression and their zeros.	MA.A.7B	HSA-APR.B.2, HSA-APR.B.3, HSF.IF.C.8a
Quadratic Parent Functions	MA.A.7C	HSF-BF.B.3

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Solve quadratic equations by factoring, square roots, completing the square, or quadratic formula.	MA.A.8A	HSA-SSE.B.3a, HSA-SSE.B.3, HSA-REI.B.4a, HSA-REI.B.4b, HSF.IF.C.8a
Quadratic functions of best fit and making predictions.	MA.A.8B	HSA-CED.A.2, HSS-ID.B.6a
Determine the domain and range of exponential functions.	MA.A.9A	HSF.IF.A.1, HSF.IF.B.5, HSF.IF.C.9a
Interpret the meaning of "a" and "b" in exponential functions.	MA.A.9B	HSN-Q.A.2, HSF-LE.B.5
Write exponential functions in the form $y = ab^x$.	MA.A.9C	HSF-LE.A.1a, HSF-LE.A.1c, HSF-LE.B.5
Graph exponential functions and identify key features (y-intercept and asymptote).	MA.A.9D	HSF.IF.B.4, HSF-IF.C.7e, HSF.IF.C.9a
Exponential functions of best fit and making predictions.	MA.A.9E	HSA-CED.A.2, HSS-ID.B.6a
Add and subtract polynomials of degree one and degree two.	MA.A.10A	HSA-SSE.A.2, HSA-APR.A.1, HSA-APR.C.4
Multiply polynomials of degree one and two.	MA.A.10B	HSA-SSE.A.2, HSA-APR.A.1, HSA-APR.C.4
Divide polynomials of degree one and two.	MA.A.10C	HSA-SSE.A.2, HSA-APR.B.2, HSA-APR.D.6

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Rewrite polynomials of degree one and two in equivalent forms using distributive property.	MA.A.10D	HSA-SSE.A.2
Factor trinomials in the form $ax^2 + bx + c$.	MA.A.10E	HSA-SSE.A.2, HSA-SSE.B.3a
Rewrite binomials using difference of two squares.	MA.A.10F	HSA-APR.C.4
Simplify numerical radical expressions involving square roots.	MA.A.11A	HSN.RN.A.2, HSA-SSE.A.2
Laws of Exponents	MA.A.11B	HSN.RN.A.1, HSN.RN.A.2, HSA-SSE.A.2, HSA-SSE.B.3c,
Determine if a relations represented in different ways tabularly represent a function.	MA.A.12A	HSF.IF.A.1 8.F.A.1
Evaluate functions written in function notation given one or more elements in their domain.	MA.A.12B	HSF.IF.A.2
Identify terms of arithmetic or geometric sequences.	MA.A.12C	HSF.IF.A.3
Write the formula for the n^{th} term of an arithmetic or geometric sequence.	MA.A.12D	HSF.IF.A.3, HSF-BF.A.1a, HSF-BF.A.2, HSF-LE.A.2
Solve literal equations for a specified variable (rewrite an equation in slope-intercept form).	MA.A.12E	HSA-CED.A.4, HSA-REI.A.1