

TEKS Distribution among Units

	A.1A	A.1B	A.1C	A.1D	A.1E	A.1F	A.1G
Unit 1	X	X	X	X	X	X	X
Unit 2	X	X	X	X	X	X	X
Unit 3	X	X	X	X	X	X	X
Unit 4	X	X	X	X	X	X	X
Unit 5	X	X	X	X	X	X	X
Unit 6	X	X	X	X	X	X	X
Unit 7	X	X	X	X	X	X	X

A.12E	X						
A.12D		X					
A.12C		X					
A.12B		X					
A.12A		X					
A.11B			X				
A.11A					X		
A.10F			X				
A.10E			X				
A.10D			X				
A.10C			X				
A.10B			X				
A.10A			X				
A.9E						X	
A.9D						X	
A.9C						X	
A.9B					X		
A.9A					X		
A.8B			X				
A.8A				X			
A.7C			X				
A.7B			X				
A.7A			X				
A.6C			X				
A.6B			X				
A.6A			X				
A.5C			X				
A.5B	X						
A.5A	X						
A.4C		X					
A.4B		X					
A.4A		X					
A.3H			X				
A.3G			X				
A.3F			X				
A.3E				X			
A.3D			X				
A.3C	X	X					
A.3B	X	X					
A.3A		X					
A.2I		X					
A.2H			X				
A.2G	X	X					
A.2F	X	X					
A.2E	X	X					
A.2D	X	X					
A.2C	X	X					
A.2B	X	X					
A.2A							
Unit 1							
Unit 2	X						
Unit 3							
Unit 4							
Unit 5							
Unit 6							
Unit 7							
Unit 8							

The standards below are color coded to the MAP categories listed below. In addition, the number in parentheses represents the frequency the standard has been tested on STAAR/EOC since 2017.

Number and Algebraic Methods

Describe & Graph Linear Equations & Inequalities

Write and Solve Linear Functions, Equations, and Inequalities

Quadratic and Exponential Functions and Equations

Algebra 1 Scope and Sequence 2025-2026

Mathematical Process Standards: The student uses mathematical processes to acquire and demonstrate mathematical understanding. The student is expected to:

- A.1A Apply mathematics to problems arising in everyday life, society, and the workplace
- A.1B Use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution, and evaluating the problem-solving process and the reasonableness of the solution
- A.1C Select tools, including real objects, manipulatives, paper and pencil, and technology as appropriate, and techniques, including mental math, estimation, and number sense as appropriate, to solve problems
- A.1D Communicate mathematical ideas, reasoning, and their implications using multiple representations, including symbols, diagrams, graphs, and language as appropriate
- A.1E Create and use representations to organize, record, and communicate mathematical ideas
- A.1F Analyze mathematical relationships to connect and communicate mathematical ideas
- A.1G Display, explain, and justify mathematical ideas and arguments using precise mathematical language in written or oral communication

Grading Period 1

Unit 1: Solving Linear Equations and Inequalities

Estimated Date Range: Aug. 12 – Aug. 29 (14 total school days)
Instructional & Re-engagement Days in Unit: 13

Assessments

STATE/NATIONAL ASSESSMENTS N/A	DISTRICT ASSESSMENTS N/A	COMMON FORMATIVE ASSESSMENTS (CFAs) Unit 1, A.5A (1 day) Testing Window Aug. 25 – Aug. 29
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Concepts within the Unit	TEKS
Establishing a Positive Mathematics Community Suggested Days: 2	<u>Process Standards:</u> A.1A Apply mathematics to problems arising in everyday life, society, and the workplace A.1B Use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution, and evaluating the problem-solving process and the reasonableness of the solution A.1C Select tools, including real objects, manipulatives, paper and pencil, and technology as appropriate, and techniques, including mental math, estimation, and sense as appropriate, to solve problems A.1D Communicate mathematical ideas, reasoning, and their implications using multiple representations, including symbols, diagrams, graphs, and language as appropriate

	A.1E Create and use representations to organize, record, and communicate mathematical ideas A.1F Analyze mathematical relationships to connect and communicate mathematical ideas A.1G Display, explain, and justify mathematical ideas and arguments using precise mathematical language in written or oral communication		
Concept #1: Solving Equations and Inequalities Suggested Days: 10 CFA A.5A (Aug. 25 – Aug. 29)	Priority Standards A.5A (14) solve linear equations in one variable, including those for which the application of the distributive property is necessary and for which variables are included in both sides. <u>Important Standards</u> A.5B (1) solve linear inequalities in one variable, including those for which the application of the distributive property is necessary and for which variables are included on both sides A.12E (1) solve mathematic and scientific formulas, and other literal equations, for a specified variable		
Unit 2: Graphing and Writing Linear Functions (Continues in Grading Period 2) Estimated Date Range: Sept. 2 – Oct.24 (32 total school days) Instructional & Re-engagement Days in Unit: 28 days (24 days in GP1 and 4 days in GP2)			
Assessments			
STATE/NATIONAL ASSESSMENTS N/A	DISTRICT ASSESSMENTS NWEA MAP BOY (9/9 – 9/11) 3 days	COMMON FORMATIVE ASSESSMENTS (CFAs) Unit 2, A.3C, A.2A, A.2C (1 day) Testing Window Oct. 6 – Oct. 24	
Concepts within the Unit	TEKS		
Concept #1: Intro to Functions (Determining Functions and Arithmetic Sequences) Suggested Days: 4	<u>Important Standards:</u> A.12A (4) decide whether relations represented verbally, tabularly, graphically, and symbolically define a function A.12C (2) identify terms of arithmetic and geometric sequences when the sequences are given in function form using recursive processes A.12D (3) write a formula for the nth term of arithmetic and geometric sequences, given the value of several of their terms A.12B (7) evaluate functions, expressed in function notation, given one or more elements in their domains		

<p>Concept #2: Rate of Change and Slope Suggested Days: 6</p>	<p>Priority Standard A.3C (18) graph linear functions on the coordinate plane and identify key features, including x-intercept, y-intercept, zeros, and slope, in mathematical and real-world problems A.3B (17) calculate the rate of change of a linear function represented tabularly, graphically, or algebraically in context of mathematical and real-world problems</p> <p><u>Important Standards</u> A.3A (6) determine the slope of a line given a table of values, a graph, two points on the line, and an equation written in various forms, including $y = mx + b$, $Ax + By = C$, and $y - y_1 = m(x - x_1)$</p>
<p>Concept #3: Graphing Linear Functions Suggested Days: 7</p>	<p>Priority Standards A.3C (18) graph linear functions on the coordinate plane and identify key features, including x-intercept, y-intercept, zeros, and slope, in mathematical and real-world problems A.2A (13) Determine the domain and range of a linear function in mathematical problems; determine reasonable domain and range values for real-world situations, both continuous and discrete; and represent domain and range using inequalities</p> <p><u>Important Standards</u> A.3E (6) determine the effects on the graph of the parent function $f(x) = x$ when $f(x)$ is replaced by $af(x)$, $f(x) + d$, $f(x-c)$, $f(bx)$ for specific values of a, b, c, and d.</p>
<p>Concept #4: Writing Linear Functions Suggested Days: 6</p> <p>CFA A.2A, A.2C, A.3C (Oct. 6 – Oct. 24)</p>	<p>Priority Standards A.2C (14) write linear equations in two variables given a table of values, a graph, and a verbal description</p> <p><u>Important Standards</u> A.2B (4) write linear equations in two variables in various forms, including $y = mx + b$, $Ax + By = C$, and $y - y_1 = m(x - x_1)$, given one point and the slope and given two points A.2D (6) write and solve equations involving direct variation A.2E (4) write the equation of a line that contains a given point and is parallel to a given line. A.2F (2) write the equation of a line that contains a given point and is perpendicular to a given line A.2G (5) write an equation of a line that is parallel or perpendicular to the X or Y axis and determine whether the slope of the line is zero or undefined</p>
<p>Concept #5: Linear Regression Suggested Days: 2</p>	<p><u>Important Standards</u> A.4C (4) write, with and without technology, linear functions that provide a reasonable fit to data to estimate solutions and make predictions for real-world problems</p>

		A.4A (3) calculate, using technology, the correlation coefficient between two quantitative variables and interpret this quantity as a measure of the strength of the linear association A.4B Compare and contrast association and causation in real-world problems	
Grading Period 2			
Unit 2: Graphing and Writing Linear Functions (Continued) Estimated Date Range: Sept. 2 – Oct.24 (32 total school days) Instructional & Re-engagement Days in Unit: 28 days (24 days in GP1 and 4 days in GP2) See grading period 1 for details			
Unit 3: Systems of Linear Equations and Inequalities Estimated Date Range: Oct. 27 – Dec. 19 (35 total school days) Instructional & Re-engagement Days in Unit: 30 days			
Assessments			
STATE/NATIONAL ASSESSMENTS N/A	DISTRICT ASSESSMENTS N/A	COMMON FORMATIVE ASSESSMENTS Unit 3, A.2I, A.5C, A.3D (1 day) Testing Window (12/2 – 12/12)	Semester Exams (4 days) Testing Window (12/16 – 12/19)
Concepts within the Unit		TEKS	
Concept #1: Representing Systems of Equations Suggested Days: 5	Priority Standards A.2I (13) write systems of two linear equations given a table of values, a graph, and a verbal description Important Standards A.3F (5) graph systems of two linear equations in two variables on the coordinate plane and determine the solution if they exist A.3G (2) estimate graphically the solutions to systems of two linear equations with two variables		
Concept #2: Solving Systems of Equations Suggested Days: 8	Priority Standards A.5C (13) Solve systems of two linear equations with two variables for mathematical and real-world problems		
Concept #3: Linear Inequalities in 2 Variables Suggested Days: 8 CFA A.2I, A.5C, & A.3D (Dec. 2 - Dec. 12)	Priority Standards A.3D (14) Graph the solution set of linear inequalities in two variables on the coordinate plane Important Standards A.2H (5) write linear inequalities in two variables given a table of values, a graph, and a verbal description		

Concept #4: Systems of Linear Inequalities. Suggested Days: 4	<u>Important Standards</u> A.3H (2) graph the solution set of systems of two linear inequalities in two variables on the coordinate plane	
Grading Period 3		
Unit 4: Operations of Polynomial Functions Estimated Date Range: Jan. 8 – Feb. 6 (21 total school days) Instructional & Re-engagement Days in Unit: 18 days		
Assessments		
STATE/NATIONAL ASSESSMENTS N/A	DISTRICT ASSESSMENTS NWEA MAP MOY (1/27 – 1/29) 3 days	COMMON FORMATIVE ASSESSMENTS N/A
Concepts within the Unit	TEKS	
Concepts #1: Simplifying Numeric and Algebraic Expressions using Laws of Exponents Suggested Days: 4	<u>Priority Standards</u> A.11B (18) simplify numeric and algebraic expressions using the laws of exponents, including integral and rational exponents	
Concept #2: Adding and Subtracting Polynomials Suggested Days: 2	<u>Important Standards</u> A.10A (4) add and subtract polynomials of degree one and degree two	
Concept #3: Multiplying Polynomials Suggested Days: 3	<u>Important Standards</u> A.10B (4) multiply polynomials of degree one and degree two	
Concept #4: Dividing Polynomials Suggested Days: 2	<u>Important Standards</u> A.10C determine the quotient of a polynomial of degree one and polynomial of degree two when divided by a polynomial of degree one and polynomial of degree two when the degree of the divisor does not exceed the degree of the dividend	

Concept #5: Factoring Polynomials Suggested Days: 6	<u>Priority Standards</u> A.10E (19) factor, if possible, trinomials with real factors in the form $ax^2 + bx + c$, including perfect square trinomials of degree two <u>Important Standards</u> A.10D rewrite polynomial expressions of degree one and degree two in equivalent forms using the distributive property A.10F (3) decide if a binomial can be written as the difference of two squares and, if possible, use the structure of a difference of two squares to rewrite the binomial	
Unit 5: Graphs of Quadratic Functions Estimated Date Range: Feb. 9 – Mar. 5 (17 total school days) Instructional & Re-engagement Days in Unit: 16 days		
Assessments		
STATE/NATIONAL ASSESSMENTS K-12 TELPAS Window (2/17 – 3/27)	DISTRICT ASSESSMENTS N/A	COMMON FORMATIVE ASSESSMENTS Unit 5, A.7A, A.6A, & A.7C (1 day) Testing Window Feb. 18 – Feb. 27
Concepts within the Unit	TEKS	
Concept #1: Graphing Quadratic Functions Suggested Days: 8 CFA A.7A, A.6A, & A.7C (Feb. 18 – Feb. 27)	<u>Priority Standards</u> A.7A (14) graph quadratic functions on the coordinate plane and use the graph to identify key attributes [of quadratic functions], if possible, including x-intercept, y-intercept, zeros, maximum value, minimum values, vertex, and the equation of the axis of symmetry A.6A (14) Determine the domain and range of quadratic functions and represent the domain the range using inequalities A.7C (13) determine the effects on the graph of the parent function $f(x) = x^2$ when $f(x)$ is replaced by $af(x)$, $f(x) + d$, $f(x - c)$, $f(bx)$ for specific values of a , b , c , and d .	
Concept #2: Writing Quadratic Functions Suggested Days: 4	<u>Important Standards</u> A.6B (5) write equations of quadratic functions given the vertex and another point on the graph, write the equation in vertex form ($f(x) = a(x - h)^2 + k$), and rewrite the equation from vertex form to standard form ($f(x) = ax^2 + bx + c$) A.6C (7) write quadratic functions when given real solutions and graphs of their related equations A.7B describe the relationship between the linear factors of quadratic expressions and the zeros of their associated quadratic functions	

Concept #3: Quadratic Regression Suggested Days: 2	<u>Important Standard</u> A.8B write, using technology, quadratic functions that provide a reasonable fit to data to estimate solutions and make predictions for real-world problems	
Unit 6: Solving Quadratic Equations (Continues in Grading Period 4) Estimated Date Range: Mar. 9 – Apr. 7 (16 total school days) Instructional & Re-engagement Days in the Unit: 15 days (5 days in GP3 and 10 days in GP4) For details, see grading period 4		
Grading Period 4		
Unit 6: Solving Quadratic Equations (Continued) Estimated Date Range: Mar. 9 – Apr. 7 (16 total school days) Instructional & Re-engagement Days in the Unit: 15 days (5 days in GP3 and 10 days in GP4)		
Assessments		
STATE/NATIONAL ASSESSMENTS K-12 TELPAS Window (2/17 – 3/27)	DISTRICT ASSESSMENTS N/A	COMMON FORMATIVE ASSESSMENTS Unit 6, A.8A (1 day) Testing Window Mar. 30 – Apr. 7
Concepts within the Unit	TEKS	
Concept #1: Solving Quadratic Equations by Graphing and Factoring Suggested Days: 4	<u>Priority Standards</u> A.8A (13) solve quadratic equations having real solutions by factoring, taking square roots, completing the square, and applying the quadratic formula <u>Important Standards</u> A.7B describe the relationship between the linear factors of quadratic expressions and the zeros of their associated quadratic functions	
Concept #2: Simplifying Radical Expressions Suggested Days: 2	<u>Important Standards</u> A.11A (6) simplify numerical radical expressions involving square roots	
Concept #3: Solve Quadratic Equations by Square Root Method Suggested Days: 2	<u>Priority Standards</u> A.8A (13) solve quadratic equations having real solutions by factoring, taking square roots, completing the square, and applying the quadratic formula	

Concept #4: Solve Quadratic Equations by Quadratic Formula Suggested Days: 4 CFA A.8A (Mar. 30 – Apr. 7)	Priority Standards A.8A (13) solve quadratic equations having real solutions by factoring, taking square roots, completing the square, and applying the quadratic formula	
Unit 7: Exponential Functions Estimated Date Range: Apr. 8 – May 1 (18 total school days) Instructional & Re-engagement Days in Unit: 15 days		
Assessments		
STATE/NATIONAL ASSESSMENTS STAAR English 1 EOC (4/7) 1 day STAAR Biology EOC (4/14) 1 day STAAR Algebra I EOC (4/21) 1 day	DISTRICT ASSESSMENTS N/A	COMMON FORMATIVE ASSESSMENTS N/A
Concepts within the Unit	TEKS	
Concept #1: Graphing Exponential Functions Suggested Days: 4	Priority Standards A.9D (14) graph exponential functions that model growth and decay and identify key features, including y-intercept and asymptote, in mathematical and real-world problems <u>Important Standards</u> A.9A determine the domain and range of exponential functions of the form $f(x) = ab^x$ and represent the domain and range using inequalities	
Concept #2: Geometric Sequences Suggested Days: 2	<u>Important Standards</u> A.12C (2) identify terms of arithmetic and geometric sequences when the sequences are given in function form using recursive processes A.12D (3) write a formula for the n^{th} term of arithmetic and geometric sequences, given the value of several of their terms	
Concept #3: Writing Exponential Functions Suggested Days: 4	Priority Standards A.9C(14) write exponential functions in the form $f(x) = ab^x$ (where b is a rational number) to describe problems arising from mathematical and real-world situations, including growth and decay; <u>Important Standards</u>	

	A.9B (6) interpret the meaning of the values of a and b in exponential functions of the form $f(x) = ab^x$ in real-world problems;		
Concept #4: Exponential Regression Suggested Days: 2	Important Standards A.9E write, using technology, exponential functions that provide a reasonable fit to data and make predictions for real-world problems		
Unit 8: Solving Equations Re-Enforcement Estimated Date Range: May 4 – May 28 (18 total school days) Instructional & Re-engagement Days in Unit: 11 days			
Assessments			
STATE/NATIONAL ASSESSMENT(S) N/A	DISTRICT ASSESSMENT(S) NWEA MAP EOY (5/12 – 5/14) 3 days	COMMON FORMATIVE ASSESSMENTS (CFAs) (administered within designated concept) N/A	Semester Exams (4 days) Testing Window (5/22 – 5/28)
Concepts within the Unit	TEKS		
Concept #1: Solving Equations and Inequalities Suggested Days: 3	Priority Standards A.5A (14) solve linear equations in one variable, including those for which the application of the distributive property is necessary and for which variables are included in both sides. Important Standards A.5B (1) solve linear inequalities in one variable, including those for which the application of the distributive property is necessary and for which variables are included on both sides		
Concept #2: Solve Quadratic Equations by Completing the Square Suggested Days: 3	Priority Standards A.8A (13) solve quadratic equations having real solutions by factoring, taking square roots, completing the square, and applying the quadratic formula		
Concept #3: Solving Quadratic Equations (All Methods) Suggested Days: 3	Priority Standards A.8A (13) solve quadratic equations having real solutions by factoring, taking square roots, completing the square, and applying the quadratic formula		