



1 st Quarter (44 Days)			
Resources:			
Week	Unit/Lesson	Learning Objectives	Reporting Categories (TEKS SEs)
1 st : Aug 10-12 (3 days)	Mathematical process standards.	TSW 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	A.2A
2 nd : Aug 15-19 (5 days)	Linear functions	TSW 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.2B
3 rd : Aug 22-26 (3 days)	Linear functions	TSW write linear equations in two variables given a table of values, a graph, and a verbal description TSW write and solve equations involving direct variation	A 2 D A2 C
4 th : Aug 29- Sep 2 (5 days)	Linear functions	TSW write the equation of a line that contains a given point and is parallel to a given line TSW write the equation of a line that contains a given point and is perpendicular to a given line	A 2 E A 2 F
5 th : Sept 6-9 Labor Day Holiday on Monday 9/5 (4 days)	Linear functions		A2 G A 3A



1 st Quarter (44 Days)			
Resources:			
Week	Unit/Lesson	Learning Objectives	Reporting Categories (TEKS SEs)
		<p>TSW 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>TSW 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>6th: Sept 12-16 (5 days)</p>	Linear functions	<p>TSW calculate the rate of change of a linear function represented tabularly, graphically, or algebraically in context of mathematical and real-world problems</p> <p>TSW 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</p>	A3 B, C
<p>7th: Sept 19-22 PD Day Friday 9/23 (4 days)</p>	Linear functions	<p>TSW calculate, using technology, the correlation coefficient between two quantitative variables and interpret this quantity as a measure of the strength of the linear association</p> <p>TSW compare and contrast association and causation in real-world problems</p>	A 4: A, B
<p>8th: Sept 26-30 (5 days)</p>	Linear functions	<p>TSW 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 4 C A5 A



1st Quarter (44 Days)

Resources:

Week	Unit/Lesson	Learning Objectives	Reporting Categories (TEKS SEs)
		TSW solve linear equations in one variable, including those for which the application of the distributive property is necessary and for which variables are included on both sides	
9 th : Oct 3-7 (5 days)	Linear functions	TSW decide whether relations represented verbally, tabularly, graphically, and symbolically define a function TSW evaluate functions, expressed in function notation, given one or more elements in their domains	A 12, A, B
10 th : Oct 10-14 (5 days)	Linear functions	TSW identify terms of arithmetic and geometric sequences when the sequences are given in function form using recursive processes TSW write a formula for the nth term of arithmetic and geometric sequences, given the value of several of their terms	A 12, C, D

2nd Quarter (45 Days)

Resources:

Week	Unit/Lesson	Learning Objectives	Reporting Categories (TEKS SEs)
1 st : Oct 17-21 (5 days)	Linear functions	TSW solve mathematic and scientific formulas, and other literal equations, for a specified variable	A 12 E
2 nd : Oct 24-28 (5 days)	Systems of Equations and Inequalities	TSW write systems of two linear equations given a table of values, a graph, and a verbal description	A 2 I A 2 H



2nd Quarter (45 Days)			
Resources:			
Week	Unit/Lesson	Learning Objectives	Reporting Categories (TEKS SEs)
		TSW write linear inequalities in two variables given a table of values, a graph, and a verbal description	
3rd: Nov 1-4 PT Conf Mon 10/31 <i>(4 days)</i>	Systems of Equations and Inequalities	TSW graph systems of two linear equations in two variables on the coordinate plane and determine the solutions if they exist TSW graph the solution set of linear inequalities in two variables on the coordinate plane	A3, F, D
4th: Nov 5-9 <i>(5 days)</i>	Systems of Equations and Inequalities	TSW estimate graphically the solutions to systems of two linear equations with two variables in real-world problems TSW graph the solution set of systems of two linear inequalities in two variables on the coordinate plane	A3, H, G
5th: Nov 7-11 <i>(5 days)</i>	Systems of Equations and Inequalities	TSW 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 TSW solve systems of two linear equations with two variables for mathematical and real-world problems	A5, B, C
6th: Nov 14-18 <i>(2 days)</i>	Systems of Equations and Inequalities	A.10(A) add and subtract polynomials of degree one and degree two A.10(B) multiply polynomials of degree one and degree two	A 10, A, B
7th: Nov 21-25 Thanksgiving	Thanksgiving Holiday		



2nd Quarter (45 Days)			
Resources:			
Week	Unit/Lesson	Learning Objectives	Reporting Categories (TEKS SEs)
(0 days)			
8 th : Nov 28-Dec 2 (5 days)	Systems of Equations and Inequalities	TSW 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 TSW rewrite polynomial expressions of degree one and degree two in equivalent forms using the distributive property	A 10, C, D
9 th : Dec 5-9 (5 days)	Systems of Equations and Inequalities	TSW 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 TSW factor, if possible, trinomials with real factors in the form $ax^2 + bx + c$, including perfect square trinomials of degree two	A 10, F, E
10 th : Dec 12-16 (5 days)	Systems of Equations and Inequalities	TSW simplify numerical radical expressions involving square roots TSW simplify numeric and algebraic expressions using the laws of exponents, including integral and rational exponents	A 11, A, B



3rd Quarter (42 Days)

Resources:

Week	Unit/Lesson	Learning Objectives	Reporting Categories (TEKS SEs)
1 st : Jan 4- 6 Tues 1/3 PD Day (3 days)	Quadratic Functions	TSW determine the domain and range of quadratic functions and represent the domain and range using inequalities TSW write equations of quadratic functions given the vertex and another point on the graph, write the equation in vertex form $f(x) = a(x$	A6 A, B
2 nd : Jan 9- 13 (5 days)	Quadratic Functions	TSW write quadratic functions when given real solutions and graphs of their related equations TSW graph quadratic functions on the coordinate plane and use the graph to identify key attributes, if possible, including x-intercept, y-intercept, zeros, maximum value, minimum values, vertex, and the equation of the axis of symmetry	A6 C A7 A
3 rd : Jan 16- 20 Mon 1/16 MLK Holiday (4 days)	Quadratic Functions	TSW describe the relationship between the linear factors of quadratic expressions and the zeros of their associated quadratic functions TSW 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	A7, B, C
4 th : Jan 23- 27 (5 days)	100 Days of School Quadratic Functions	TSW solve quadratic equations having real solutions by factoring, taking square roots, completing the square, and applying the quadratic formula	A8, A, B



3rd Quarter (42 Days)			
Resources:			
Week	Unit/Lesson	Learning Objectives	Reporting Categories (TEKS SEs)
		TSW write, using technology, quadratic functions that provide a reasonable fit to data to estimate solutions and make predictions for real-world problems	
5 th : Jan 30 - Feb 3 (5 days)	Quadratic Functions	TSW decide whether relations represented verbally, tabularly, graphically, and symbolically define a function A.12(B) evaluate functions, expressed in function notation, given one or more elements in their domains	A 12, A, B
6 th : Feb 6- 10 (5 days)	Exponential Functions	TSW determine the domain and range of exponential functions of the form $f(x) = ab^x$ and represent the domain and range using inequalities TSW interpret the meaning of the values of a and b in exponential functions of the form $f(x) = ab^x$ in real-world problems	A 9: A, B
7 th : Feb 13- 17 (4 days)	Exponential Functions	TSW 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 TSW graph exponential functions that model growth and decay and identify key features, including y-intercept and asymptote, in mathematical and real-world problems	A9: C, D
8 th : Feb 20- 24 Mon 2/20 District PD	Exponential Functions	TSW write, using technology, exponential functions that provide a reasonable fit to	A 9 E



3rd Quarter (42 Days)			
Resources:			
Week	Unit/Lesson	Learning Objectives	Reporting Categories (TEKS SEs)
(4 days)		data and make predictions for real-world problems TSW decide whether relations represented verbally, tabularly, graphically, and symbolically define a function	A 12 A
9 th : Feb 27 – Mar3 (5 days)	Exponential Functions	TSW identify terms of arithmetic and geometric sequences when the sequences are given in function form using recursive processes TSW write a formula for the nth term of arithmetic and geometric sequences, given the value of several of their terms	A12: C, D
10 th : 1 st : Mar 6- 10 (5 days)	Statistics and probability	TSW solve problems with Samples and studies Statistics and parameter Distribution of Data Comparing Sets of data	

4th Quarter (49 Days)			
Resources:			
Week	Unit/Lesson	Learning Objectives	Reporting Categories (TEKS SEs)
	Spring Break		
1 st : Mar 20- 24 3/23 Ramadan Begins (5 days)	Statistics and probability	TSW solve problems with Samples and studies Statistics and parameter Distribution of Data Comparing Sets of data	
2 nd : Mar 27 - 31 (5 days)	Statistics and probability	TSW learn how to solve problems with: Stimulation Permutations and combinations Probability of compound events	



4th Quarter (49 Days)

Resources:

Week	Unit/Lesson	Learning Objectives	Reporting Categories (TEKS SEs)
		Probability Distributions	
3rd: Apr 3- 7 <i>(5 days)</i>	Review and assessment		
4th: Apr 10- 14 Fri 4/14 Ramadan break starts <i>(4 days)</i>	Review and assessment		
5th: April 17- 21 Ramadan / Eid Break <i>(0 days)</i>	Review and assessment		
6th: Apr 24- 28 <i>(5 days)</i>	Review and assessment		
7th: May 1- 5 <i>(5 days)</i>	STAAR		
8th: May 8- 12 <i>(5 days)</i>	STAAR		
9th: May 15- 19 <i>(5 days)</i>	Final Benchmark		
10th: May 22- 26 5/26 Last Day of School <i>(5 days)</i>	Graduation Week		