	DESOTO COUNTY SCHOOL DISTRICT	
	YEAR-LONG (TRADITIONAL) ALGEBRA	
	1st Nine Weeks	
Power Standard	Learning Target	MS CCRS
	I can write an expression using variables.	A-SSE.1
	I can simplify an expression using substitution and/or order of operations.	-
	I can identify rational numbers, integers, whole numbers, and irrational numbers.	N-RN.3
	I can use the close property or show by example that the sum or product of two rational	N-RN.3
	numbers is rational, the sum of a rational and an irrational number is irrational, and the	
	product of a nonzero rational number and an irrational number is irrational.	
Prerequisites Skills	I can graph points on a coordinate plane.	-
	I can add, subtract, multiply, and divide integers, fractions, and decimals.	-
	I can simplify variable expressions using the distributive property and combining like terms.	- N O 1
	I can interpret units in the context of the problem, especially in regards to formulas. I can use unit analysis to check the reasonableness of a solution.	N-Q.1 N-Q.1
	I can determine an appropriate quantity to model a situation and can choose an appropriate	N-Q.2/N-Q.
	level of accuracy.	4.2, 4
	I can identify domain and range and determine if a graph, table, or set of	F.IF.1
	ordered pairs is a function.	
	I can use and evaluate function notation.	F.IF.2
Functions	I can write a function rule from given information.	F.IF.1
	I can relate the domain of a function to its graph and to the quantities relationship it describes.	F-IF.5
	I can recognize even and odd functions from their graphs and algebraic expressions.	F-BF.3
	I can find, interpret and compare the rates of change from tables, graphs, equations and situations.	F-IF.6/F-IF.9/S
Linear Equations	I can find and interpret the average rate of change of a function over a specified interval.	F-IF.6
	I can write equations in slope-intercept form from given information.	A-CED.2
	I can graph and analyze linear equations.	A-CED.2
	I can interpret the meaning of coefficients, constants, factors, and intercepts in linear functions	F-LE.5
	in terms of a context.	F-LE.5
	I can describe situations where one quantity grows or decays by a constant rate per unit interval relative to another.	F-LE.5
	I can understand that the graph of an equation in two variables is the set of solutions plotted in	A-REI.10
	the coordinate plane.	A-NEI.10
- C: I I	2nd Nine Weeks	
Power Standard	Learning Target	MS CCRS
	I can create and solve multi-step equations in one variable.	A-CED.1/A-R
	I can explain each step in solving an equation.	A-REI.1 A-CED.4
Equations	I can rearrange a formula to solve for a given variable. I can interpret the solution to equations in mathematical and real-world contexts.	A-CED.4 A-CED.3
	I can identify and explain why solutions to equations have one solution, no solutions, or	A-CED.3
	infinitely many solutions.	A-CLD.3
D-L '	I can add and subtract polynomials.	A-APR.1
Polynomial	I can multiply polynomials.	A-APR.1
Operations/Exponents	I can manipulate the terms, factors, and coefficients in expressions to explain the individual parts of the expression.	A-SSE.1a
	I can solve systems of linear equations by graphing.	A-REI.6/A-RE
	I can create and solve linear systems algebraically.	A-REI. 5/A-RE
Systems of Equations	I can identify and explain why some linear systems have one solution, no solutions, or infinitely	A-CED.3
Systems of Equations	I can identify and explain why some linear systems have one solution, no solutions, or infinitely many solutions. I can interpret solutions to systems of equations in mathematical and real-world contexts.	A-CED.3

	I can identify and write formulas for arithmetic and geometric sequences.	F-IF.3
Sequences	I can write an linear and exponential function (including arithmetic and geometric sequences)	F-LE.2
	from a graph, relationship, or table and interpret its parts.	
	3rd Nine Weeks	
Power Standard	Learning Target	MS CCRS
Statistics (Part 1)	I can summarize, display, and interpret data for two variables, including writing a line of fit function for a scatter plot.	S-ID.6
	I can calculate a residual and create and analyze a residual plot.	S-ID. 6
	I can explain the meaning of the slope (rate of change) and the intercept (constant term) of a linear model in the context of the data.	S-ID.7
	I can compute (using technology) and interpret the meaning of the correlation coefficient of a linear fit in the context of the data.	S-ID.8
	I can distinguish between correlation and causation.	S-ID.9
	I can use properties of exponents to transform expressions for exponential functions.	A-SSE.3c
Exponential Models	I can interpret the meaning of coefficients, constants, factors, exponents, and intercepts in exponential functions in terms of a context.	F-LE.5
	I can distinguish between situations that can be modeled with linear functions and with exponential functions.	F-LE.1
	I can describe situations where one quantity grows or decays by a constant percent per unit interval relative to another.	F-LE.1
	I can factor polynomials and find zeros of the quadratic function they represent.	A-SSE.3
	I can graph quadratic functions and show key features, such as intercepts, maximums, and minimums.	F-IF.4/F-IF.7
Quadratics	I can compare quadratic functions in different forms, including equations, graphs, tables, and situations.	F-IF.8/F-IF.9
	I can solve quadratic equations by taking square roots, factoring, completing the square, or using the quadratic formula.	A-REI.4
	I can construct and compare linear, quadratic, and exponential models and use them to solve problems.	F-BF.1
	I can translate among equivalent forms of quadratic functions (standard form, factored form, and graphing form.	A-SSE.3
	I can create and solve multi-step inequalities in one variable.	A-REI.3
los a socialitation	I can create and solve systems of linear inequalities by graphing.	A-REI.12/A-CED.3
Inequalities	I can interpret the solutions to inequalities and systems of inequalities in mathematical and real-world contexts.	A-CED.3
	Ath Nina Waaks	
Dower Ctandard	4th Nine Weeks	MC CCDC
Power Standard	Learning Target	MS CCRS
Power Standard Transformations and	Learning Target I can graph and compare key features, such as intercepts, maximums, and minimums of linear, exponential, quadratic, square root, piecewise-defined, and absolute value functions.	F-IF.7/F-IF.9
	Learning Target I can graph and compare key features, such as intercepts, maximums, and minimums of linear, exponential, quadratic, square root, piecewise-defined, and absolute value functions. I can identify the effect on the graph (in vertex form) by replacing $f(x)$ by $f(x) + k$, k $f(x)$, $f(kx)$, and $f(x+k)$ for specific values of k .	F-IF.7/F-IF.9 F-BF.3
Transformations and	Learning Target I can graph and compare key features, such as intercepts, maximums, and minimums of linear, exponential, quadratic, square root, piecewise-defined, and absolute value functions. I can identify the effect on the graph (in vertex form) by replacing f(x) by f(x) +k, k f(x), f(kx),	F-IF.7/F-IF.9
Transformations and	Learning Target I can graph and compare key features, such as intercepts, maximums, and minimums of linear, exponential, quadratic, square root, piecewise-defined, and absolute value functions. I can identify the effect on the graph (in vertex form) by replacing $f(x)$ by $f(x) + k$, k $f(x)$, $f(kx)$, and $f(x+k)$ for specific values of k .	F-IF.7/F-IF.9 F-BF.3
Transformations and	Learning Target I can graph and compare key features, such as intercepts, maximums, and minimums of linear, exponential, quadratic, square root, piecewise-defined, and absolute value functions. I can identify the effect on the graph (in vertex form) by replacing f(x) by f(x) +k, k f(x), f(kx), and f(x+k) for specific values of k. I can find the value of k given the graph of a transformed function. I can summarize, display, and interpret data for one variable (dot plots, histograms, and box	F-IF.7/F-IF.9 F-BF.3 F-BF.3
Transformations and	Learning Target I can graph and compare key features, such as intercepts, maximums, and minimums of linear, exponential, quadratic, square root, piecewise-defined, and absolute value functions. I can identify the effect on the graph (in vertex form) by replacing f(x) by f(x) +k, k f(x), f(kx), and f(x+k) for specific values of k. I can find the value of k given the graph of a transformed function. I can summarize, display, and interpret data for one variable (dot plots, histograms, and box plots). I can describe data distribution to compare center (median, mean) and spread (IQR, standard deviation) of two or more different data sets. I can use the correct measure of center and spread to describe a distribution that is symmetric or skewed.	F-IF.7/F-IF.9 F-BF.3 F-BF.3 S-ID.1
Transformations and Graphs	Learning Target I can graph and compare key features, such as intercepts, maximums, and minimums of linear, exponential, quadratic, square root, piecewise-defined, and absolute value functions. I can identify the effect on the graph (in vertex form) by replacing f(x) by f(x) +k, k f(x), f(kx), and f(x+k) for specific values of k. I can find the value of k given the graph of a transformed function. I can summarize, display, and interpret data for one variable (dot plots, histograms, and box plots). I can describe data distribution to compare center (median, mean) and spread (IQR, standard deviation) of two or more different data sets. I can use the correct measure of center and spread to describe a distribution that is symmetric	F-IF.7/F-IF.9 F-BF.3 F-BF.3 S-ID.1 S-ID. 2