		Quarter 1	
	Mathe	matical Reasonin	g Skills
	Interpret	Analyze	Create
	Represent	Understand	Compare
[Essential Standards	s Spiraled Throug	hout the Whole Year
			untity in terms of its context. Limit to linear
expressions	s and to exponential expressions w	ith integer exponents.	
сс 2 2 Ц5	D 2 Write expression in equival	ant forms to solve problems	It is important to balance conceptual
			ns. For example, develop of a skill in factoring
			lifferent forms of quadratic expression reveal.
	E 2 Arml. manufitation approxim		its and so also in formulas, so and
			its and scales in formulas, graphs and wides grounding for work with expressions,
	ind functions.	unonsnips beiween inem pro	whees grounding for work with expressions,
	rs and Operations		
The Numbe			
	1 Distinguish between rational an	d irrational numbers using	their properties.
8.NS.1	Know that numbers that are not r		
	Understand informally that every	number has a decimal expan	nsion; for rational numbers show that the
	· ·	ually, and convert a decimal	expansion which repeats eventually into a
	rational number.		
	4 Estimate irrational numbers by		
8.NS.2	Use rational approximations of ir approximately on a number line of		e the size of irrational numbers, locate them lue of expressions.
	Example: What is the estimated v	value of π^2 ?	
			etween 1 and 2, then between 1.4 and 1.5, and
	explain how to continue on to get		
The Real N	umber System		
CC.2.1.HS.	F.2 Apply properties of rational an	nd irrational numbers to sol	ve real world or mathematical problems.
N.RN. 3		nd that the product of a nonze	tional; that the sum of a rational number and an ero rational number and an irrational number is <i>imeter of a square of area 2</i>
			V & V
2.2 Algebra	l		

	D.9 Use reasoning to solve equations and justify the solution method – Students should focus on and master linear equations and be able to extend and apply their reasoning to other types of equations in future
	dents will solve exponential equations with logarithms in Algebra II.
A.REI.1	Understand solving equations as a process of reasoning and explain the reasoning. – <i>Master linear; learn</i> as general principle
A.REI.3	Solve linear equations and inequalities in one variable, including equations with coefficients represented by letters. <i>Extend earlier work with solving linear inequalities in one variable and to solving literal equations that are linear in the variable being solved for. Include simple exponential equations that rely on application of the laws of exponents such as $5^{2} = 125$ or $2^{2} = 1/16$</i>
Creating Eq	
situations re	D.7 Create equations to describe numbers or relationships. Limit A.CED.1. and A.CED.2 to linear, limit to quiring evaluation of exponential functions at integer inputs. Limit A.CED.3 to linear equations and Limit ACED.4 to formulas which are linear in the variable of interest.
A.CED.1	Create equations and inequalities in one variable and use them to solve problems. Include equations arising from linear and quadratic functions, and simple rational and exponential functions. (algebra II)
A.CED.3	Represent constraints by equations or inequalities, and by systems of equations and/or inequalities, and interpret solutions as viable or non-viable options in a modeling context. – linear only
	Example: Represent inequalities describing nutritional and cost constraints on combination of different foods.
A.CED.4	Rearrange formulas to highlight a quantity of interest, using the same reasoning as in solving equations. <i>Example:</i>
	Rearrange Ohm's law $V=IR$ to highlight resistance R .

		Quarter 2	
	Mathe	<u>matical Reasonir</u>	ng <u>Skills</u>
	Interpret	Analyze	Create
	Represent	Understand	Compare
	Essential Standards	s Spiraled Throug	ghout the Whole Year
	S.D.1 – Interpret the structure of ex s and to exponential expressions w		antity in terms of its context. Limit to linear
understand and compl	ding and procedural fluency in wor leting the square goes hand-in-hand	rk with equivalent expression d with understanding what	t. It is important to balance conceptual ons. For example, develop of a skill in factoring different forms of quadratic expression reveal.
displays. W			nits and scales in formulas, graphs and ovides grounding for work with expressions,
2.2 Algebro			
0	ng Functions		
types of sit		uiled analysis of any class of	otation Students should experience a variety of of functions at this stage is not advised. Students
F.IF.1	Understand that a function from element of the domain exactly or	one set (called a domain) to ne element of the range. If f	another set (called the range) assigns to each <i>is a function and</i> x is an element of its domain x. The graph of <i>f is the graph of the equation y</i> -
F.IF.2			eir domain, and interpret statements that use
F.IF.3			ecursively, whose domain is a subset of integers.
F.IF.4	For a function that models a relat in terms of quantities, and sketch	tionship between two quanti graphs showing key feature tinuous, linear to nonlinear	ities, interpret key features of graphs and tables es given a verbal description of the relationship. <i>r, increasing, decreasing, maximum, minimum,</i>
F.IF.5			cable, to the quantitative relationship it
F.IF.6			on (presented symbolically or as a table) over a
compariso	C.C2 Analyze Functions using different	rent representations. Focus braically. For example, con	s on linear and exponential functions, include npare the growth of two linear functions, or two

F.IF.7	Graph functions expressed symbolically and whole key features of the graph, by hand in simple cases and
	using technology for more complicated cases.
	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. Compare and contrast absolute value step and piecewise-defined functions with linear,
	quadratic, and exponential functions. Highlight issues of domain, range, and usefulness when examining
	piecewise-defined functions.
	e. Graph exponential and logarithmic functions, showing intercepts and end behavior and trigonometric
	functions, showing period, midline and amplitude.
F.IF.8	Write a function that describes a relationship between two quantities.
	a. Determine and explicit expression, a recursive process or steps for calculation from a context.
	b. Combine standard function types using arithmetic operations.
F.1F.9	Compare properties of two functions each represented in a different way (algebraically, graphically,
	numerically in tables or by verbal descriptions) Focus on expanding the types of functions considered to
	include, linear, exponential and quadratic.
2.2 Algebra	
	adratic and Exponential Models
	C6 Interpret expressions for functions in terms of the situation model
F.LE.5	Interpret parameters in a linear or exponential function in terms of a context. Limit exponential functions to
	those of the form $f(x) = b^x + k$
Building Fu	
CCDDUS	C3 Ruild a function that models a relationship between two augustities
	C3 Build a function that models a relationship between two quantities.
F.BF.1	Write a function that describes a relationship between two quantities. <i>Limit to linear and exponential</i>
F.BF.1	Write a function that describes a relationship between two quantities. <i>Limit to linear and exponential functions</i> .
	 Write a function that describes a relationship between two quantities. <i>Limit to linear and exponential functions</i>. Determine an explicit expression, recursive process, or steps for calculation from a context. <i>Limit to linear</i>
F.BF.1 F.BF.1a	 Write a function that describes a relationship between two quantities. <i>Limit to linear and exponential functions</i>. Determine an explicit expression, recursive process, or steps for calculation from a context. <i>Limit to linear and exponential functions</i>.
F.BF.1 F.BF.1a F.BF.1b	 Write a function that describes a relationship between two quantities. <i>Limit to linear and exponential functions</i>. Determine an explicit expression, recursive process, or steps for calculation from a context. <i>Limit to linear and exponential functions</i>. Combine standard function types using arithmetic operations. <i>Limit to linear and exponential functions</i>.
F.BF.1 F.BF.1a	 Write a function that describes a relationship between two quantities. <i>Limit to linear and exponential functions</i>. Determine an explicit expression, recursive process, or steps for calculation from a context. <i>Limit to linear and exponential functions</i>. Combine standard function types using arithmetic operations. <i>Limit to linear and exponential functions</i>. Write arithmetic and geometric sequences both recursively and with an explicit formula, use them to model
F.BF.1 F.BF.1a F.BF.1b	 Write a function that describes a relationship between two quantities. <i>Limit to linear and exponential functions</i>. Determine an explicit expression, recursive process, or steps for calculation from a context. <i>Limit to linear and exponential functions</i>. Combine standard function types using arithmetic operations. <i>Limit to linear and exponential functions</i>. Write arithmetic and geometric sequences both recursively and with an explicit formula, use them to model situations and translate between the two forms. <i>Connect arithmetic sequences to linear functions and</i>
F.BF.1 F.BF.1a F.BF.1b F.BF.1b	 Write a function that describes a relationship between two quantities. <i>Limit to linear and exponential functions</i>. Determine an explicit expression, recursive process, or steps for calculation from a context. <i>Limit to linear and exponential functions</i>. Combine standard function types using arithmetic operations. <i>Limit to linear and exponential functions</i>. Write arithmetic and geometric sequences both recursively and with an explicit formula, use them to model situations and translate between the two forms. <i>Connect arithmetic sequences to linear functions and geometric sequences to exponential functions</i>.
F.BF.1 F.BF.1a F.BF.1b	 Write a function that describes a relationship between two quantities. <i>Limit to linear and exponential functions</i>. Determine an explicit expression, recursive process, or steps for calculation from a context. <i>Limit to linear and exponential functions</i>. Combine standard function types using arithmetic operations. <i>Limit to linear and exponential functions</i>. Write arithmetic and geometric sequences both recursively and with an explicit formula, use them to model situations and translate between the two forms. <i>Connect arithmetic sequences to linear functions and geometric sequences to exponential functions</i>. Build new functions form existing functions.
F.BF.1 F.BF.1a F.BF.1b F.BF.1b	 Write a function that describes a relationship between two quantities. <i>Limit to linear and exponential functions</i>. Determine an explicit expression, recursive process, or steps for calculation from a context. <i>Limit to linear and exponential functions</i>. Combine standard function types using arithmetic operations. <i>Limit to linear and exponential functions</i>. Write arithmetic and geometric sequences both recursively and with an explicit formula, use them to model situations and translate between the two forms. <i>Connect arithmetic sequences to linear functions and geometric sequences to exponential functions</i>. Build new functions form existing functions. Identify the key effect on the graph of replacing f(x) by f(x) + k, k f(x), f(kx) and f(x+k) for specific values
F.BF.1 F.BF.1a F.BF.1b F.BF.1b	 Write a function that describes a relationship between two quantities. <i>Limit to linear and exponential functions</i>. Determine an explicit expression, recursive process, or steps for calculation from a context. <i>Limit to linear and exponential functions</i>. Combine standard function types using arithmetic operations. <i>Limit to linear and exponential functions</i>. Write arithmetic and geometric sequences both recursively and with an explicit formula, use them to model situations and translate between the two forms. <i>Connect arithmetic sequences to linear functions and geometric sequences to exponential functions</i>. Build new functions form existing functions. Identify the key effect on the graph of replacing f(x) by f(x) + k, k f(x), f(kx) and f(x+k) for specific values of k (both positive and negative); find the vale of k given the graphs. Experiment with cases and illustrate an
F.BF.1 F.BF.1a F.BF.1b F.BF.1b	 Write a function that describes a relationship between two quantities. <i>Limit to linear and exponential functions.</i> Determine an explicit expression, recursive process, or steps for calculation from a context. <i>Limit to linear and exponential functions.</i> Combine standard function types using arithmetic operations. <i>Limit to linear and exponential functions.</i> Write arithmetic and geometric sequences both recursively and with an explicit formula, use them to model situations and translate between the two forms. <i>Connect arithmetic sequences to linear functions and geometric sequences to exponential functions.</i> Build new functions form existing functions. Identify the key effect on the graph of replacing f(x) by f(x) + k, k f(x), f(kx) and f(x+k) for specific values of k (both positive and negative); find the vale of k given the graphs. Experiment with cases and illustrate an explanation of the effects of the graph using technology. <i>Focus on vertical translations of graphs of linear</i>
F.BF.1 F.BF.1a F.BF.1b F.BF.1b	 Write a function that describes a relationship between two quantities. <i>Limit to linear and exponential functions</i>. Determine an explicit expression, recursive process, or steps for calculation from a context. <i>Limit to linear and exponential functions</i>. Combine standard function types using arithmetic operations. <i>Limit to linear and exponential functions</i>. Write arithmetic and geometric sequences both recursively and with an explicit formula, use them to model situations and translate between the two forms. <i>Connect arithmetic sequences to linear functions and geometric sequences to exponential functions</i>. Build new functions form existing functions. Identify the key effect on the graph of replacing f(x) by f(x) + k, k f(x), f(kx) and f(x+k) for specific values of k (both positive and negative); find the vale of k given the graphs. Experiment with cases and illustrate an explanation of the effects of the graph using technology. <i>Focus on vertical translations of graphs of linear and exponential functions. Relate the vertical translation of a linear function to its y-intercept. While</i>
F.BF.1 F.BF.1a F.BF.1b F.BF.1b	 Write a function that describes a relationship between two quantities. <i>Limit to linear and exponential functions</i>. Determine an explicit expression, recursive process, or steps for calculation from a context. <i>Limit to linear and exponential functions</i>. Combine standard function types using arithmetic operations. <i>Limit to linear and exponential functions</i>. Write arithmetic and geometric sequences both recursively and with an explicit formula, use them to model situations and translate between the two forms. <i>Connect arithmetic sequences to linear functions and geometric sequences to exponential functions</i>. Build new functions form existing functions. Identify the key effect on the graph of replacing f(x) by f(x) + k, k f(x), f(kx) and f(x+k) for specific values of k (both positive and negative); find the vale of k given the graphs. Experiment with cases and illustrate an explanation of the effects of the graph using technology. <i>Focus on vertical translations of graphs of linear and exponential functions to a linear graph its appropriate at this level, it may be difficult for</i>
F.BF.1 F.BF.1a F.BF.1b F.BF.1b	 Write a function that describes a relationship between two quantities. <i>Limit to linear and exponential functions</i>. Determine an explicit expression, recursive process, or steps for calculation from a context. <i>Limit to linear and exponential functions</i>. Combine standard function types using arithmetic operations. <i>Limit to linear and exponential functions</i>. Write arithmetic and geometric sequences both recursively and with an explicit formula, use them to model situations and translate between the two forms. <i>Connect arithmetic sequences to linear functions and geometric sequences to exponential functions</i>. Build new functions form existing functions. Identify the key effect on the graph of replacing f(x) by f(x) + k, k f(x), f(kx) and f(x+k) for specific values of k (both positive and negative); find the vale of k given the graphs. Experiment with cases and illustrate an explanation of the effects of the graph using technology. <i>Focus on vertical translations of graphs of linear and exponential functions. Relate the vertical translation of a linear function to its y-intercept. While applying other transformations to a linear graph its appropriate at this level, it may be difficult for students to identify or distinguish between the effects of the other transformations included in the</i>
F.BF.1a F.BF.1b F.BF.1b F.BF.3	 Write a function that describes a relationship between two quantities. <i>Limit to linear and exponential functions.</i> Determine an explicit expression, recursive process, or steps for calculation from a context. <i>Limit to linear and exponential functions.</i> Combine standard function types using arithmetic operations. <i>Limit to linear and exponential functions.</i> Write arithmetic and geometric sequences both recursively and with an explicit formula, use them to model situations and translate between the two forms. <i>Connect arithmetic sequences to linear functions and geometric sequences to exponential functions.</i> Build new functions form existing functions. Identify the key effect on the graph of replacing f(x) by f(x) + k, k f(x), f(kx) and f(x+k) for specific values of k (both positive and negative); find the vale of k given the graphs. Experiment with cases and illustrate an explanation of the effects of the graph using technology. <i>Focus on vertical translations of graphs of linear and exponential functions. Relate the vertical translation of a linear function to its y-intercept. While applying other transformations to a linear graph its appropriate at this level, it may be difficult for students to identify or distinguish between the effects of the other transformations included in the standard.</i>
F.BF.1 F.BF.1a F.BF.1b F.BF.1b	 Write a function that describes a relationship between two quantities. <i>Limit to linear and exponential functions.</i> Determine an explicit expression, recursive process, or steps for calculation from a context. <i>Limit to linear and exponential functions.</i> Combine standard function types using arithmetic operations. <i>Limit to linear and exponential functions.</i> Write arithmetic and geometric sequences both recursively and with an explicit formula, use them to model situations and translate between the two forms. <i>Connect arithmetic sequences to linear functions and geometric sequences to exponential functions.</i> Build new functions form existing functions. Identify the key effect on the graph of replacing f(x) by f(x) + k, k f(x), f(kx) and f(x+k) for specific values of k (both positive and negative); find the vale of k given the graphs. Experiment with cases and illustrate an explanation of the effects of the graph using technology. <i>Focus on vertical translations of graphs of linear and exponential functions.</i> Relate the vertical translation of a linear function to its y-intercept. While applying other transformations to a linear graph its appropriate at this level, it may be difficult for students to identify or distinguish between the effects of the other transformations included in the standard.
F.BF.1a F.BF.1b F.BF.1b F.BF.3	 Write a function that describes a relationship between two quantities. <i>Limit to linear and exponential functions.</i> Determine an explicit expression, recursive process, or steps for calculation from a context. <i>Limit to linear and exponential functions.</i> Combine standard function types using arithmetic operations. <i>Limit to linear and exponential functions.</i> Write arithmetic and geometric sequences both recursively and with an explicit formula, use them to model situations and translate between the two forms. <i>Connect arithmetic sequences to linear functions and geometric sequences to exponential functions.</i> Build new functions form existing functions. Identify the key effect on the graph of replacing f(x) by f(x) + k, k f(x), f(kx) and f(x+k) for specific values of k (both positive and negative); find the vale of k given the graphs. Experiment with cases and illustrate an explanation of the effects of the graph using technology. <i>Focus on vertical translations of graphs of linear and exponential functions.</i> Relate the vertical translation of a linear function to its y-intercept. While applying other transformations to a linear graph its appropriate at this level, it may be difficult for students to identify or distinguish between the effects of the other transformations included in the standard. Find inverse functions Solve an equation of the form f(x) = c for a simple function <i>f</i> that has an inverse and write an expression for
F.BF.1a F.BF.1b F.BF.1b F.BF.3	 Write a function that describes a relationship between two quantities. <i>Limit to linear and exponential functions.</i> Determine an explicit expression, recursive process, or steps for calculation from a context. <i>Limit to linear and exponential functions.</i> Combine standard function types using arithmetic operations. <i>Limit to linear and exponential functions.</i> Write arithmetic and geometric sequences both recursively and with an explicit formula, use them to model situations and translate between the two forms. <i>Connect arithmetic sequences to linear functions and geometric sequences to exponential functions.</i> Build new functions form existing functions. Identify the key effect on the graph of replacing f(x) by f(x) + k, k f(x), f(kx) and f(x+k) for specific values of k (both positive and negative); find the vale of k given the graphs. Experiment with cases and illustrate an explanation of the effects of the graph using technology. <i>Focus on vertical translations of graphs of linear and exponential functions.</i> Relate the vertical translation of a linear function to its y-intercept. While applying other transformations to a linear graph its appropriate at this level, it may be difficult for students to identify or distinguish between the effects of the other transformations included in the standard.
F.BF.1a F.BF.1b F.BF.1b F.BF.3	 Write a function that describes a relationship between two quantities. <i>Limit to linear and exponential functions.</i> Determine an explicit expression, recursive process, or steps for calculation from a context. <i>Limit to linear and exponential functions.</i> Combine standard function types using arithmetic operations. <i>Limit to linear and exponential functions.</i> Write arithmetic and geometric sequences both recursively and with an explicit formula, use them to model situations and translate between the two forms. <i>Connect arithmetic sequences to linear functions and geometric sequences to exponential functions.</i> Build new functions form existing functions. Identify the key effect on the graph of replacing f(x) by f(x) + k, k f(x), f(kx) and f(x+k) for specific values of k (both positive and negative); find the vale of k given the graphs. Experiment with cases and illustrate an explanation of the effects of the graph using technology. <i>Focus on vertical translations of graphs of linear and exponential functions.</i> Relate the vertical translation of a linear function to its y-intercept. While applying other transformations to a linear graph its appropriate at this level, it may be difficult for students to identify or distinguish between the effects of the other transformations included in the standard. Find inverse functions Solve an equation of the form f(x) = c for a simple function <i>f</i> that has an inverse and write an expression for

		Quarter 3	
	Mathe	matical Reasonin	g Skills
	Interpret	Analyze	Create
	Represent	Understand	Compare
ſ			1 1
l	Essential Standards	s Spiraled Throug	hout the Whole Year
	<u>.D.1</u> – Interpret the structure of ex s and to exponential expressions w	A A A	ntity in terms of its context. Limit to linear
understand	ling and procedural fluency in wor	rk with equivalent expression	It is important to balance conceptual is. For example, develop of a skill in factoring lifferent forms of quadratic expression reveal.
lisplays. W	orking with quantities and the rela	•	its and scales in formulas, graphs and vides grounding for work with expressions,
_	and functions.		
2.4 Statistic Interpretin	cs and Probability g Categorical and Interpretative D		al and quantitative variables. Students take a
2.4 Statistic Interpretin CC.2.4.HS nore sophi	cs and Probability g Categorical and Interpretative D .B.2 Summarize, represent, and in sticated look at using a linear fund fitting a line to data, students asse Summarize categorical data for t the context of the data (including	terpret data on two categoric ction to model the relationsh ess how well the model fits by wo categories in two-way fre g joint, marginal, and condition	al and quantitative variables. Students take a ip between two numerical variables. In analyzing residuals. quency tables. Interpret relative frequencies in nal relative frequencies). Recognize possible
2.4 Statistic Interpretin CC.2.4.HS nore sophi addition to S.ID.5	cs and Probability g Categorical and Interpretative D B.2 Summarize, represent, and in sticated look at using a linear fund fitting a line to data, students asse Summarize categorical data for t the context of the data (including associations and trends in the data	terpret data on two categoric ction to model the relationsh ess how well the model fits by wo categories in two-way fre g joint, marginal, and condition ta.	<i>ip between two numerical variables. In analyzing residuals.</i> quency tables. Interpret relative frequencies in nal relative frequencies). Recognize possible
2.4 Statistic interpretin CC.2.4.HS nore sophi addition to S.ID.5 S.ID.6	cs and Probability g Categorical and Interpretative D B.2 Summarize, represent, and in sticated look at using a linear fund fitting a line to data, students asse Summarize categorical data for to the context of the data (including associations and trends in the dat Represent data on two quantitative	terpret data on two categoric ction to model the relationsh ess how well the model fits by wo categories in two-way fre g joint, marginal, and condition ta. we variables on a scatter plot,	<i>ip between two numerical variables. In analyzing residuals.</i> quency tables. Interpret relative frequencies in nal relative frequencies). Recognize possible and describe how the variables are related.
2.4 Statistic Interpretin CC.2.4.HS nore sophi addition to S.ID.5	cs and Probability g Categorical and Interpretative D B.2 Summarize, represent, and in sticated look at using a linear fund fitting a line to data, students asse Summarize categorical data for to the context of the data (including associations and trends in the dat Represent data on two quantitative Fit a function to the data; use fund	terpret data on two categoric ction to model the relationsh ass how well the model fits by wo categories in two-way fre g joint, marginal, and condition ta. ve variables on a scatter plot, actions fitted to data to solve p	<i>ip between two numerical variables. In</i> <i>analyzing residuals.</i> quency tables. Interpret relative frequencies in nal relative frequencies). Recognize possible and describe how the variables are related. problems in the context of the data. Use given
2.4 Statistic Interpretin CC.2.4.HS nore sophi addition to S.ID.5 S.ID.6	cs and Probability g Categorical and Interpretative D B.2 Summarize, represent, and in sticated look at using a linear fund fitting a line to data, students asse Summarize categorical data for to the context of the data (including associations and trends in the dat Represent data on two quantitative Fit a function to the data; use fund	terpret data on two categoric ction to model the relationsh ess how well the model fits by wo categories in two-way fre g joint, marginal, and condition ta. we variables on a scatter plot, nctions fitted to data to solve p aggested by the context. Empl	<i>ip between two numerical variables. In</i> <i>analyzing residuals.</i> quency tables. Interpret relative frequencies in nal relative frequencies). Recognize possible and describe how the variables are related. problems in the context of the data. Use given hasize linear, quadratic and exponential models
2.4 Statistic Interpretin CC.2.4.HS nore sophi addition to S.ID.5 S.ID.6 S.ID.6a	cs and Probability g Categorical and Interpretative D B.2 Summarize, represent, and in sticated look at using a linear func- fitting a line to data, students asse Summarize categorical data for t the context of the data (including associations and trends in the dat Represent data on two quantitative Fit a function to the data; use fun- functions or choose a function su	terpret data on two categoric ction to model the relationsh ess how well the model fits by wo categories in two-way fre g joint, marginal, and condition ta. ve variables on a scatter plot, nctions fitted to data to solve p aggested by the context. Empl ction by plotting and analyzin	<i>ip between two numerical variables. In</i> <i>analyzing residuals.</i> quency tables. Interpret relative frequencies in and relative frequencies). Recognize possible and describe how the variables are related. problems in the context of the data. Use given hasize linear, quadratic and exponential models og results.
2.4 Statistic Interpretin CC.2.4.HS nore sophi addition to S.ID.5 S.ID.6 S.ID.6a S.ID.6b S.ID.6b	cs and Probability g Categorical and Interpretative D B.2 Summarize, represent, and in sticated look at using a linear func- fitting a line to data, students asse Summarize categorical data for t the context of the data (including associations and trends in the dat Represent data on two quantitativ Fit a function to the data; use fun functions or choose a function su Informally assess the fit of a func-	terpret data on two categoric ction to model the relationsh ess how well the model fits by wo categories in two-way fre g joint, marginal, and condition ta. ve variables on a scatter plot, netions fitted to data to solve p aggested by the context. Empl ction by plotting and analyzin plot that suggest a linear assoc	<i>ip between two numerical variables. In</i> <i>analyzing residuals.</i> quency tables. Interpret relative frequencies in nal relative frequencies). Recognize possible and describe how the variables are related. problems in the context of the data. Use given hasize linear, quadratic and exponential models og results.
2.4 Statistic Interpretin CC.2.4.HS nore sophi addition to S.ID.5 S.ID.6 S.ID.6a S.ID.6b S.ID.6b S.ID.6c CC.2.4.HS correlation	cs and Probability g Categorical and Interpretative D B.2 Summarize, represent, and in sticated look at using a linear fund fitting a line to data, students asse Summarize categorical data for to the context of the data (including associations and trends in the dat Represent data on two quantitative Fit a function to the data; use fund functions or choose a function su Informally assess the fit of a fund Fit a linear function for a scatter B.3 Interpret Linear Models Build coefficient. The focus here is on t	terpret data on two categoric ction to model the relationsh ess how well the model fits by wo categories in two-way fre g joint, marginal, and condition ta. ve variables on a scatter plot, nctions fitted to data to solve p aggested by the context. Emplois ction by plotting and analyzing plot that suggest a linear association of the computation and interpret	<i>ip between two numerical variables. In</i> <i>analyzing residuals.</i> quency tables. Interpret relative frequencies in and relative frequencies). Recognize possible and describe how the variables are related. problems in the context of the data. Use given hasize linear, quadratic and exponential models ag results.
2.4 Statistic Interpretin IC.2.4.HS nore sophi addition to S.ID.5 S.ID.6 S.ID.6a S.ID.6b S.ID.6c IC.2.4.HS correlation neasure of	cs and Probability g Categorical and Interpretative D B.2 Summarize, represent, and in sticated look at using a linear func- fitting a line to data, students asse Summarize categorical data for to the context of the data (including associations and trends in the dat Represent data on two quantitative Fit a function to the data; use fun- functions or choose a function su Informally assess the fit of a func- Fit a linear function for a scatter B.3 Interpret Linear Models Build coefficient. The focus here is on to fow well the data fit the relations	terpret data on two categoric ction to model the relationsh ess how well the model fits by wo categories in two-way fre g joint, marginal, and condition ta. ve variables on a scatter plot, nctions fitted to data to solve p aggested by the context. Emplois ction by plotting and analyzing plot that suggest a linear association of the computation and interpret	<i>ip between two numerical variables. In</i> <i>analyzing residuals.</i> quency tables. Interpret relative frequencies in and relative frequencies). Recognize possible and describe how the variables are related. problems in the context of the data. Use given hasize linear, quadratic and exponential models og results.
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Reasoning	with Equations and Inequalities
CC.2.2.HS.	D.10 Represent, solve and interpret equations/inequalities and systems of equations/inequalities
	ly and graphically – Build on student experiences graphing and solving systems of linear equations from
	ool to focus on justification of the methods used. Include cases where the two equations descrive the same
	ng infinitely many solutions) and cases where two equations describe parallel lines (yielding no solution);
	GPE.5 when it is taught in geometry, which requires students to prove the slope criteria for parallel lines.
A.REI.5	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. <i>Linear-linear and linear-quadratic</i>
A.REI.6	Solve systems of linear equations exactly and approximately (e.g., with graphs), focusing on pairs of linear equations in two variables. <i>Linear-linear and linear-quadratic</i>
A.REI.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). Focus on linear and exponential equations and be able to adapt and apply that learning to other types of equations in future courses.
A.REI.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. (algebra II) Focus on cases where $f(x)$ and $g(x)$ are linear or exponential.
A.REI.12	Graph the solutions to a linear inequality in two variables as a half-plane (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-plane. <i>Linear and exponential; learn as general principle</i>
	s and Operations
	umber System F.1 Apply and extend the properties of exponents to solve problems with rational exponents. These
	hould occur before discussing exponential functions with continuous domains.
N.RN.1	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 radical exponents.
N.RN.2	Rewrite expressions involving radicals and rational exponents using the properties of exponents.
2.4 Statistic	s and Probability
Interpreting	categorical and Quantitative Data
СС.2.2.8.В.	3 Analyze and solve linear equations and pairs of simultaneous linear equations
8.EE.8	Analyze and solve pairs of simultaneous linear equations.
	Understand that solutions to a system of two linear equations in two variables correspond to points of intersection of their graphs because points of intersection satisfy both equations simultaneously,
8.EE.8.B	Solve systems of two linear equations in two variables algebraically and estimate solutions by graphing the equations. Solve simple cases by inspection.
	<i>Example:</i> $3x+2y=5$ and $3x+2y=6$ have no solution because $3x=2y$ cannot simultaneously be 5 and 6.
8EE.8.C	Solve real-world and mathematical problems leading to two linear equations in two variables.
022.0.0	

Quarter 4 Mathematical Reasoning Skills Interpret Analyze Create Represent Understand Compare Essential Standards Spiraled Throughout the Whole Year CC.2.2.HS.D.1 – Interpret the structure of expressions to represent a quantity in terms of its context. Limit to linear expressions and to exponential expressions with integer exponents. CC.2.2.HS.D.2 – Write expression in equivalent forms to solve problems. It is important to balance conceptual understanding and procedural fluency in work with equivalent expressions. For example, develop of a skill in factoring and completing the square goes hand-in-hand with understanding what different forms of quadratic expression reveal. CC.2.1HS.F.3 – Apply quantitative reasoning to choose and interpret units and scales in formulas, graphs and displays. Working with quantities and the relationships between them provides grounding for work with expressions, equations and functions. 2.2 Algebra Arithmetic with Polynomials and Rational Expressions CC.2.3.S.A.3 Understand and Apply the Pythagorean Theorem to Solve Problems. A.APR.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. 2.3 Geometry			Ore graters A	
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Interpreting Categorical and Quantitative Data	2.4 Stati			
			tative Data	
	CC.2.4.H	S.B.1 Summarize, represent of	and interpret data o	n a single count or measurement
variable. In grades 6-8 students describe center and spread in data distribution. Here they				
choose a summary of statistics appropriate to the characteristics of the data distribution such				
as the shape of the distribution or existence of extreme data points.	as the sh	ape of the distribution or exi	stence of extreme da	ta points.
S.ID.1 Represent data with plots on the real number line (dot plots, histograms and box plots).	S.ID.1	Represent data with plots on	the real number line ((dot plots, histograms and box plots).

S.ID.2	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.
S.ID.3	Interpret different in shape, center and spread in the context of the data sets, accounting for possible effects of extreme data points (outliers).