	Quarter 1					
Unit	Standard Item Range	Depth of Knowledge	Standards	ICan	Item Specs	Math Framework
		,	7.NS.1 Find the prime factorization of	1 can make and use factor trees to find the prime factorization of numbers.	****	
Prime Factorization	Low	,	whole numbers and write the results	1 can write the prime factorization of a composite number using exponents.	7.NS.1	Z.NS.1
Prime Factorization	Low	2	7.NS.2 Understand the inverse	1 can write the prime factorization of a composite number using exponents.	7.NS.1	ZNS.1
			relationship between squaring and finding the square root of a perfect			
			finding the square root of a perfect	Given a perfect square whole number, I can find the square root.		
Whole Numbers	Medium	2	square integer. Find square roots of perfect square integers.	1 can explain the relationship between squaring and finding the square root. 1 can identify when only the principal square root is appropriate to find.	7.NS.2	7.NS.2
			7.NS.3 Know there are rational and			
			irrational numbers. Identify, compare, and order rational and	1 can classify a number as rational or irrational.		
			common irrational numbers (v2, v3,	1 can use estimate values to compare and order two or more rational and/or irrational numbers.		
			v5, ?) and plot them on a number			
Squares Square Roots Perfect Square	High	3	7.C.1 Understand p + q as the	1 can plot rational numbers and estimates of irrational numbers on a number line.	7.NS.3	7.NS.3
			number located a distance Ig I from			
			p, in the positive or negative direction, depending on whether q is	*I can show addition of integers on a number line.		
			positive or negative. Show that a	*I can explain how $p + q$ is the number located from p, in the positive or negative direction.		
			number and its opposite have a sum of 0 (are additive inverses). Interpret sums of rational numbers by	1 can describe situations where opposite quantities combine to make zero.		
Rational Numbers	Medium	3	describing real-world contexts.	*I can represent and explain how a number and its opposite have a sum of zero and are additive inverses.	7.C.1	7.C.1
			7.C.1 Understand p + q as the			
			number located a distance q from p, in the positive or negative direction, depending on whether q is			
			direction, depending on whether q is	1 can show addition of integers on a number line.		
			positive or negative. Show that a	1 can explain how p + q is the number located from p, in the positive or negative direction.		
			number and its opposite have a sum of 0 (are additive inverses). Interpret	1 can describe situations where opposite quantities combine to make zero.		
			sums of rational numbers by			704
Irrational Numbers	Medium	3	describing real-world contexts. 7.C.2 Understand subtraction of	1 can represent and explain how a number and its opposite have a sum of zero and are additive inverses.	7.C.1	7.C.1
			7.C.2 Understand subtraction of rational numbers as adding the	Managhan white of the control of the		
			additive inverse, $p - q = p + (-q)$.	1 can show subtraction of integers on a number line.		
			Show that the distance between two rational numbers on the number line	1 can explain that subtraction is equivalent to adding the additive inverse.		
			is the absolute value of their	1 can represent how the distance between two rational numbers on a number line is the absolute value of their difference.		
L			difference, and apply this principle in			700
Number Line	Medium	3	real-world contexts. 7.C.3 Understand that multiplication	1 can subtract rational numbers in the context of a real-world problem.	7.C.2	7.C.2
			 7.C.3 Understand that multiplication is extended from fractions to rational 			
			is extended from fractions to rational numbers by requiring that			
			operations continue to satisfy the properties of operations, particularly			
			the distributive property, leading to	*I can recognize and describe the rules when multiplying signed numbers.		
Computation	Medium		products such as $(-1)(-1) = 1$ and the rules for multiplying signed numbers	*I can apply the distributive property to multiply rational numbers.	7.C.3	7.C.3
Computation	Medium	3	rules for multiplying signed numbers	1 can apply the distributive property to multiply rational numbers.	7.C.3	_ 25.3
			7.C.4 Understand that integers can be divided, provided that the divisor is not zero, and that every quotient			
			is not zero, and that every quotient	1 can explain the concept of dividing integers.		
			of integers (with non-zero divisor) is a rational number. Understand that	I can explain why integers cannot be divided when the divisor is zero.		
			if p and q are integers, then -(p/q) =			
Absolute Value	Medium	3	(-p)/q = p/(-q).	1 can recognize and describe the rules when dividing signed numbers.	7.C.4	7.C.4
			7.C.7 Compute with rational numbers fluently using a standard			
Additive Inverse	Medium	3	algorithmic approach.	*I can add, subtract, multiply and divide with rational numbers.	7.C.7	7.C.7
			7.C.8 Solve real-world problems with			
Addition	Wash	2	rational numbers by using one or	1 can solve real-world problems by adding, subtracting, multiplying, and dividing rational numbers.	7.C.8	7.C.8
Integers	riigii	3	two operations.	Tean soive fear-work problems by adding, substacting, multiplying, and dividing relicine frumbers.	7.0.0	72.0
Rational Numbers						
Subtraction						
Integers						
Distance on number line						
Integers						
Multiplication Integers						
Distributive Property						
Division Integers						
Algorithmic Approach						
Real World Problems						
Operations						
	Quarter 2					
Unit	Standard Item Range	Depth of Knowledge	Standards	ICan	Item Specs	
Unit Rates	a.aara itam range	= =p.s. or renomicage	7 C 5 Compute unit rates associated	1 can compute a unit rate for a given ratio from information within a situational context or mathematical problem.		
Ratios			with ratios of fractions, including ratios of lengths, areas and other			
Length Area			ratios of lengths, areas and other quantities measured in like or	1 can form a unit rate with fractions.		
Perimeter	High	1	different units.	1 can compute a unit rate with quantities measured in unlike units.	7.C.5	7.C.5
			7.AF.1 Apply the properties of operations (e.g., identity, inverse,	*I can apply properties of operations to add, subtract, factor, and expand linear expressions with rational coefficients.		
			operations (e.g., identity, inverse, commutative, associative,			
			distributive properties) to create	1 can combine like terms to factor and expand linear expressions with rational coefficients using the distributive property.		
			equivalent linear expressions, including situations that involve	1 can use properties of operations to write equivalent expressions.		
			factoring (e.g., given 2x - 10, create	1 can rewrite an expression in an equivalent form if needed.		
L			an equivalent expression 2(x - 5)).		L	
Properties Linear Expressions Equivalent Expression	high	2	Justify each step in the process.	t can justify the steps taken to form equivalent expressions.	7.AF.1	7.AF.1
			7.AF.2 Solve equations of the form $px + q = r$ and $p(x + q) = r$ fluently,			
			where n_n_and r are specific rational			
			numbers. Represent real-world problems using equations of these	1 can solve two-step real-world and mathematical problems using rational numbers.		
Solving Equations	high	2	forms and solve such problems.	1 can use variables to represent numbers in real-world or mathematical problems and make simple equations to solve problems.	7.AF.2	7.AF.2
			7 AF 3 Solve inequalities of the form			_
			px +q (> or =) r or px + q (< or =) r, where p, q, and r are specific rational			
			where p, q, and r are specific rational numbers. Represent real-world			
			problems using inequalities of these	1 can use variables to represent numbers in real-world or mathematical problems and make simple inequalities to solve problems.		
			forms and solve such problems. Graph the solution set of the	1 can graph and interpret the solution set of an inequality in the context of a problem.		
			inequality and interpret it in the context of the problem.			
Solving Inequalities	high	2	context of the problem.	1 can solve an inequality for an unknown value, without context.	7.AF.3	7.AF.3

			7 AS 4 Define sleep and the first	1 can express slope as vertical change per unit of horizontal change.		
			7.AF.4 Define slope as vertical change for each unit of horizontal	*I can classify situations as having a constant rate of change (being linear) or as having a varying rate of change (being non-linear).		
			change and recognize that a constant rate of change or constant slope	1 can explain the vertical change and the horizontal change in a real-world context.		
			describes a linear function. Identify and describe situations with constant	1 can describe situations that would have a constant rate of change.		
ope Vertical Change Horizontal Change Rates of Change	high	2	and describe situations with constant or varying rates of change.	*I can describe situations that would have a varying rate of change.	ZAE4	ZAE4
.,			7.AF.5 Graph a line given its slope	*I can find the slope of a line given a graph.		
oordinate Plane Slope	high	2	and a point on the line. Find the slope of a line given its graph.	*I can graph a line given its slope and one other point on the line.	7.AF.5	7.AF.5
			7.AF.6 Decide whether two			
			quantities are in a proportional relationship (e.g., by testing for	*I can recognize a proportional relationship given a table by testing for equivalent ratios.		
			graphing on a coordinate plane and observing whether the graph is a	*I can recognize a proportional relationship given a graph.		
roportional Relationship Equivalent Ratios Coordinate Plane	med	3	straight line through the origin).	1 can identify equivalent proportional relationships across representations.	7.AF.6	7.AF.6
	Quarter 3					
nit	Standard Item Range	Depth of Knowledge	Standards	ICan	Item Specs	
				1 can apply proportional reasoning to solve multistep ratio and percent problems.		
			7.C.6 Use proportional relationships	*I can calculate the percent increase or decrease in a given context.		
			to solve ratio and percent problems with multiple operations, such as the	*I can convert within and across measurement systems using proportional relationships.		
			following: simple interest, tax,			
			markups, markdowns, gratuities, commissions, fees, conversions	*I can calculate markups and markdown using proportional relationships.		
			within and across measurement systems, percent increase and	1 can calculate simple interest in a given problem.		
ercentages and Proportions	High	3	decrease, and percent error.	1 can solve problems involving tax and gratuities.	7.C.6	7.C.6
			7.AF.7 Identify the unit rate or constant of proportionality in tables,	1 can compute a unit rate.		
			graphs, equations, and verbal descriptions of proportional	*I can define the constant of proportionality as a unit rate.		
nit Rate Constant of Proportionality Direct Variation	hieh	3	descriptions of proportional relationships.	"I can analyze tables, graphs, equations and verbal descriptions to identify the unit rate.	7.AE.7	7.AF.7
and an importantially briefly variation			7.AF.8 Explain what the coordinates	The state of the s		
			of a point on the graph of a	1 can explain what the points on a graph of a proportional relationship mean in terms of a specific situation.		
			terms of the situation, with special	*I can recognize that (1, r) on a graph represents the unit rate, r.		
oportional Relationship	low	3	attention to the points (0, 0) and (1, r), where r is the unit rate.	I can explain the significance of the point (0, 0) on the graph of proportional relationship.	7.AF.8	7.AF.8
			.,,	*I can identify real-world situations that involve proportional relationships.		
			7.AF.9 Identify real-world and other	*I can represent proportional relationships by writing equations.		
			mathematical situations that involve proportional relationships. Write			
			equations and draw graphs to	1 can draw graphs that represent proportional relationships.		
			represent proportional relationships and recognize that these situations	*I can explain how the graph of a proportional relationship relates to the linear function y = mx.		
			are described by a linear function in the form y = mx, where the unit rate,	*Given an equation or graph, I can solve real-world problems involving proportional relationships.		
irect Variation	high	3	m, is the slope of the line.	1 can see the relationship between the unit rate and the slope, m.	7.AF.9	Z.AF.9
			7.GM.1:Draw triangles (freehand, with ruler and protractor, and using			
			technology) with given conditions			
			technology) with given conditions from three measures of angles or sides, and notice when the	1 can recognize triangles with given conditions.		
			conditions determine a unique	*I can recognize a triangle when given three measurements.		
eal-World Situations Equations Graphs Proportional Relationships	Medium	2	triangle, more than one triangle, or no triangle.	*I can determine, through exploration, whether three given side lengths (or angle measures) would form a triangle.	7.GM.1	7.GM.1
			7.GM.2: Identify and describe	1 can determine whether two polygons are similar polygons.		
			similarity relationships of polygons including the angle-angle criterion for similar triangles, and solve	1 can show two triangles are similar based on their angle measures.		
			for similar triangles, and solve			
raw Triangles Given Various Conditions Classifying Angles	Medium	3	problems involving similarity.	1 can solve for missing lengths and/or angles within similar polygons.	7.GM.2	7.GM.2
			mathematical problems involving	*I can compute actual lengths and areas from a scale drawing.		
			scale drawings of geometric figures, including computing actual lengths	1 can compute the scale factor given the model length and actual length.		
			and areas from a scale drawing. Create a scale drawing by using	1 can solve problems with scale drawings of geometric figures.		
imilar Figures	High	3	proportional reasoning.	*I can create a scale drawing using proportional reasoning.	7.GM.3	7.GM.3
			7.GM.4:Solve real-world and other	1 can use properties of supplementary, complementary, vertical, and adjacent angles in multi-step problems.		
			7.GM.4:Solve real-world and other mathematical problems that involve vertical, adjacent, complementary,	*I can write and solve simple equations for an unknown angle in a figure.		
cale Drawings Scale Models	Medium	,	vertical, adjacent, complementary, and supplementary angles	1 can identify types of angles in the context of a real-world problem.	7.GM.4	7.GM.4
ne and Angle Relationships		•	· coppermentary ungers.			
	Quarter 4					
nit	Standard Item Range	Depth of Knowledge	Standards 7.GM.5:Understand the formulas for	I Can	Item Specs	
			r.gm.s:Understand the formulas for			
			area and circumference of a circle			
			and use them to solve real-world and	*I can identify the formulas for the area and circumference of a circle.		
erimeter and			and use them to solve real-world and other mathematical problems; give an informal derivation of the	1 can identify the formulas for the area and circumference of a circle. 1 can use the formulas for circumference and area of a circle to solve problems.		
erimeter and roumference as of Circles	High	3	and use them to solve real-world and other mathematical problems; give an informal derivation of the relationship between circumference and area of a circle.		7.GM.5	Z.GM.5
primeter and rountference ea of Circles	High	3	and use them to solve real-world and other mathematical problems; give an informal derivation of the	1 can use the formulas for circumference and area of a circle to solve problems.	7.GM.5	7.GM.5
nrimeter and roumference ea of Circles	High	3	and use them to solve real-world and other mathematical problems; give an informal derivation of the relationship between circumference and area of a circle. 7.GM.6: Solve real-world and other	1 can use the formulas for circumference and area of a circle to solve problems. 1 can explain the relationship between the circumference and the area of a circle. 1 can solve problems involving volume of cylinders.	7.GM.5	7.GM.5
	High	3	and use them to solve real-world and other mathematical problems; give an informal derivation of the relationship between circumference and area of a circle. 7.GM.6: Solve real-world and other mathematical problems involving volume of cylinders and three-dimensional objects composed of	1 can use the formulas for circumference and area of a circle to solve problems. 1 can explain the relationship between the circumference and the area of a circle. 1 can solve problems involving volume of cylinders. 1 can solve problems involving volume of figures composed of right rectangular prisms.		
	High Medium	3	and use them to solve real-world and other mathematical problems; give an informal derivation of the relationship between dircumference and area of a circle. 7.6M.S: Solve real-world and other mathematical problems involving volume of cylinders and three- dimensional objects composed of right rectangular prisms.	1 can use the formulas for circumference and area of a circle to solve problems. 1 can explain the relationship between the circumference and the area of a circle. 1 can solve problems involving volume of cylinders.	ZGM.5	ZGM.5
ea of Irregular Figures Introductions to ThreeDimensional Figures	High Medium	3	and use them to solve real-world and other mathematical problems; give an informal derivation of the relationship between dircumference and area of a circle. 7.CM.6: 500e real-world and other mathematical problems involving volume of cylinders and three- dimensional objects composed of right rectangular prisms. 7.CM.7.Construct nets for right rectangular prisms and cylinders and	-1 can use the formulas for circumference and area of a circle to solve problems1 can explain the relationship between the circumference and the area of a circle1 can solve problems involving volume of cylinders1 can solve problems involving volume of figures composed of right rectangular prisms1 can apply the volume formulas for cylinders and figures composed of right rectangular prisms to solve real-world problems.		
ea of Irregular Figures Introductions to ThreeDimensional Figures	High Medium	3	and use them to solve real-world and other mathematical problems; give an informal derivation of the relationship between dircumference and area of a circle. 7.CM.6: 500e real-world and other mathematical problems involving volume of cylinders and three- dimensional objects composed of right rectangular prisms. 7.CM.7.Construct nets for right rectangular prisms and cylinders and	1 can use the formulas for circumference and area of a circle to solve problems. 1 can explain the relationship between the circumference and the area of a circle. 1 can solve problems involving volume of cylinders. 1 can solve problems involving volume of figures composed of right rectangular prisms. 1 can apply the volume formulas for cylinders and figures composed of right rectangular prisms to solve real-world problems. 1 can apply the volume formulas for cylinders and figures composed of right rectangular prisms to solve real-world problems.		
rea of Irregular Figures Introductions to ThreeDimensional Figures eal-World roblems with firms and	High Medium	3	and use them to solve real-world and other mathematical problems; give an informal derivation of the relationship between drucumference and area of a circle. 7.GM.6: Solve real-world and other mathematical problems involving volume of cylinders and three- dimensional objects composed of right rectangular prims. 7.GM.7-Construct nets for right	1 can use the formulas for circumference and area of a circle to solve problems. 1 can explain the relationship between the circumference and the area of a circle. 1 can solve problems involving volume of cylinders. 1 can solve problems involving volume of gures composed of right rectangular prisms. 1 can apply the volume formulas for cylinders and figures composed of right rectangular prisms to solve real-world problems. 1 can use nets to find the surface area of right rectangular prisms and cylinders. 1 can solve problems involving surface area of cylinders.	Z.GM.6	7.GM.6
ures of Irregular Figures Introductions to ThreeDimensional Figures teal-World roblems with frisms and	High Medium Low	3 2 3	and use them to solve real-world and other mathematical problems; give an informal derivation of the mathematical problems; give and areas of a circle. 7.0M.6. Solve real-world and other mathematical problems involving volume of cylinders and three- dimensional objects composed of right rectangular prisms. 7.0M.7.Comsture test for right rectangular prisms and cylinders and use the nests to complete the surface area, soph this tackneys to solve any complete surface.	1 can use the formulas for circumference and area of a circle to solve problems. 1 can explain the relationship between the circumference and the area of a circle. 1 can solve problems involving volume of cylinders. 1 can solve problems involving volume of figures composed of right rectangular prisms. 1 can apply the volume formulas for cylinders and figures composed of right rectangular prisms to solve real-world problems. 1 can apply the volume formulas for cylinders and figures composed of right rectangular prisms to solve real-world problems.		
Poirmeter and Droumference rea of Circles was of Irregular Figures Introductions to ThreeDimensional Figures Real-Month West-Months with Problems with Problems and Jylinders	High Medium Low	3 2 3	and use them to solve real-world and other mathematical profilering, yet relationship between discumierance and area of a circle. 7.0M.6. Solve real-world and other mathematical profilers involving volume of cylinders and three dimensional objects composed of intensional objects composed or intensional objects composed or intensional objects composed and use the nest to compute the surface area; apply this benique to solve real-world and other mathematical profilers.	1 can use the formulas for circumference and area of a circle to solve problems. 1 can explain the relationship between the circumference and the area of a circle. 1 can solve problems involving volume of cylinders. 1 can solve problems involving volume of gures composed of right rectangular prisms. 1 can apply the volume formulas for cylinders and figures composed of right rectangular prisms to solve real-world problems. 1 can use nets to find the surface area of right rectangular prisms and cylinders. 1 can solve problems involving surface area of cylinders.	Z.GM.6	7.GM.6
vea of Irregular Figures Introductions to ThreeDimensional Figures Real-World rycklems with Trisms and	High Medium Low	3 2 3	and use them to solve real-world and other mathematical problems, give relationship between circumference and area of a critical problems involving volume of cylinders and three mathematical problems involving volume of cylinders and three dimensional objects composed or inventional objects composed or inventional objects composed or problems. The computer was all problems and cylinders and use the nest to compute the surface area; apply this technique to solve real-world and other mathematical problems. Computer of the computer of the problems. Computer of the computer of the problems. Computer of the computer of the problems.	1 can use the formulas for circumference and area of a circle to solve problems. 1 can explain the relationship between the circumference and the area of a circle. 1 can solve problems involving volume of cylinders. 1 can solve problems involving volume of gures composed of right rectangular prisms. 1 can apply the volume formulas for cylinders and figures composed of right rectangular prisms to solve real-world problems. 1 can use nets to find the surface area of right rectangular prisms and cylinders. 1 can solve problems involving surface area of cylinders.	Z.GM.6	7.GM.6
rea of Irregular Figures Introductions to ThreeDimensional Figures leal-World roblems with firms and	High Medium Low	3 2 3	and use them to solve real-world and other mathematical problems; give an experiment of the solver of the problems of the solver of the solver of the problems of the solver of the solver of the anthematical problems involving volume of cylinders and three- dimensional objects composed of right rectangular prims. 7-CMP-Construct nests or right rectangular prims and cylinders and rectangular prims. 7-CMP-Construct nests or right rectangular prims and cylinders and rectangular prims. 7-CMP-Construct nests or right rectangular prims and cylinders and rectangular prims. 7-CMP-CMP-CMP-CMP-CMP-CMP-CMP-CMP-CMP-CMP	1 can use the formulas for circumference and area of a circle to solve problems. 1 can explain the relationship between the circumference and the area of a circle. 1 can solve problems involving volume of cylinders. 1 can solve problems involving volume of gures composed of right rectangular prisms. 1 can apply the volume formulas for cylinders and figures composed of right rectangular prisms to solve real-world problems. 1 can use nets to find the surface area of right rectangular prisms and cylinders. 1 can solve problems involving surface area of cylinders.	Z.GM.6	7.GM.6
rea of Irregular Figures Introductions to ThreeDimensional Figures eal-World roblems with firms and	High Medium Low	3 2 3	and use them to solve real-world and other mathematical problems; you as in formal derivation of the world and them and area of a circle. 7.6.M.6. Solve real-world and other mathematical problems involving volume of cylinders and three-dimensional objects composed of right rectangular prisms. 7.6.M.7.Comstruct tests for right rectangular prisms and cylinders and use the risks to compute this surface and the risks of the right rectangular prisms and cylinders and use the risks to compute this surface are also the results of	1 can use the formulas for circumference and area of a circle to solve problems. 1 can explain the relationship between the circumference and the area of a circle. 1 can solve problems involving volume of oyinders. 1 can solve problems involving volume of figures composed of right rectangular prisms. 1 can apply the volume formulas for cylinders and figures composed of right rectangular prisms to solve real-world problems. 1 can apply the volume formulas for cylinders and figures composed of right rectangular prisms to solve real-world problems. 1 can use nets to find the surface area of right rectangular prisms and cylinders. 1 can solve problems involving surface area of right rectangular prisms.	Z.GM.6	7.GM.6
rea of Irregular Figures Introductions to ThreeDimensional Figures eal-World oblems with name and indexs	High Medium Low	3 2 3	and use them to solve real-world and other mathematical problems, give relationship between circumference and area of a critical problems involving and area of a critical problems involving volume of cylinders and three dimensional objects composed of universional objects composed of universional objects composed or dimensional objects composed or dimensional objects composed and use the nests to compute the surface area objects of the computer of of th	1 can use the formulas for circumference and area of a circle to solve problems. 1 can explain the relationship between the circumference and the area of a circle. 1 can solve problems involving volume of cylinders. 1 can solve problems involving volume of figures composed of right rectangular prisms. 1 can apply the volume formulas for cylinders and figures composed of right rectangular prisms to solve real-world problems. 1 can use nets to find the surface area of right rectangular prisms and cylinders. 1 can solve problems involving surface area of right rectangular prisms. 1 can solve problems involving surface area of right rectangular prisms. 1 can solve problems involving surface area of right rectangular prisms. 1 can solve problems involving surface area of right rectangular prisms. 1 can explain why generalizations made about a population from a sample are only valid if the sample represents that population.	Z.GM.6	7.GM.6
vea of Irregular Figures Introductions to ThreeDimensional Figures Real-World rycklems with Trisms and	High Medium Low	3 2	and use them to solve real-world and other mathematical problems; you as in formal derivation of the world and them and area of a circle. 7.6.M.6. Solve real-world and other mathematical problems involving volume of cylinders and three-dimensional objects composed of right rectangular prisms. 7.6.M.7.Comstruct tests for right rectangular prisms and cylinders and use the risks to compute this surface and the risks of the right rectangular prisms and cylinders and use the risks to compute this surface are also the results of	1 can use the formulas for circumference and area of a circle to solve problems. 1 can explain the relationship between the circumference and the area of a circle. 1 can solve problems involving volume of oyinders. 1 can solve problems involving volume of figures composed of right rectangular prisms. 1 can apply the volume formulas for cylinders and figures composed of right rectangular prisms to solve real-world problems. 1 can apply the volume formulas for cylinders and figures composed of right rectangular prisms to solve real-world problems. 1 can use nets to find the surface area of right rectangular prisms and cylinders. 1 can solve problems involving surface area of right rectangular prisms.	Z.GM.6	7.GM.6

Populations and Random Samples	med	2	population. Generate multiple	1 can explain that inferences about a population can be made by examining a sample. 1 can use data from a random sampling to draw conclusions about a population. 1 can generate multiple samples to gauge predictions.	7.DSP2	Z.DSP.2
			7.DSP.3: Find, use, and interpret measures of center (mean and median) and measures of spread (range, interquartile range, and mean absolute deviation) for	"I can find similarities and differences in two different data sets. 1 can compare and draw conclusions from two populations based off their means, medians and/or range, interquartile range, or mean absolute deviation.		
Inferences and Predictions of Random Samples	high	3	numerical data from random samples to draw comparative inferences about two populations.	1 can find, use, and interpret various measures of center. 1 can find, use, and interpret various measures of spread.	7.DSP.3	Z.DSP.3
			7.DSP.4:Make observations about the degree of visual overlap of two numerical data distributions represented in line plots or box plots. Describe how data, particularly	1 can compare two data distributions represented by line plots or box plots. 1 can compare two sets of data within a single data display such as a line plot or box plot.		
Mean, Median Mode, and Range	med	3	outliers, added to a data set may affect the mean and/or median.	1 can identify outliers. 1 can describe the affect an outlier has on the mean and/or median	Z.DSP.4	Z.DSP.4
			7.DSPS: Understand that the probability of a chance event is a number between 0 and 1 that expresses the likelihood of the event occurring. Understand that a probability near 0 indicates an unlikely event, a probability around 1/2 indicates an event that is neither unlikely not likely, and a probability.	"I can explain how the probability of an event ranges from 0, impossible, to 1, certain, with various levels of likelihood in between.		
			near 1 indicates a likely event. Understand that a probability of 1 indicates an event certain to occur	1 can explain how an event that is equally likely or equally unlikely has a probability of about 0.5 or 1/2. 1 can categorize and order the probabilities of events by their likelihood.		
Mean Absolute Deviation	high	1	and a probability of 0 indicates an event impossible to occur.	*I can identify probabilities of events using words like impossible, very unlikely, unlikely, equally unlikely, unlikely, very likely, and certain to describe the probabilities of events.	7.DSP.5	Z.DSP.5
Line Plot Box-and-Whisker Plot	•··	_				
Probability						
Chance Events Relative Frequency						
Probability Models						