OCUMENT KEY: WALT (That) indicates a concep			Unit 1		Unit 2		Unit 3			Unit 4	
Key	Focus - Explicit Instruction and Assessment Revisited and Reinforced		Quotients of Fractions, Ratio and Rate Reasoning		Introductory Statistics		Expressions, Equations, and Geometry			Integers in the Numbo System	
NJSLS	SLO	Units	1A	1B	2A	2B	3 A	3B	3 C	4A	4B
	Ratios and Proportional Relation	onships									
6.RP.A.1. nderstand the concept of a ratio and use ratio language to describe a	WALT explain the concept of a ratio through definition.	1									
ratio relationship between two quantities. For example, "The ratio of vings to beaks in the bird house at the zoo was 2.1, because for every 2 wings there was 1 beak." "For every vote candidate A received, candidate C received nearly three votes."	WALT use ratio language to describe a relationship between two quantities	1									
6.RP.A.2 Understand the concept of a unit rate a/b associated with a ratio a:b with b ≠ 0, and use rate language in the context of a ratio relationship. For example, "This recipe has a ratio of 3 cups of flour to 4 cups of sugar, so there is 3/4 cup of flour for each cup of sugar." "We paid \$75 for 15 hamburgers, which is a rate of \$5 per hamburger.	WALT construct a unit rate (a/b) from a given ratio (a:b)	1									
	WALT explain a unit rate (a/b) associated with a ratio (a:b)	1									
	WALT express a ratio relationship using rate language	1									
	WALT represent and solve rate and ratio real-world and mathematical problems by using tables, tape diagrams, double number line diagrams, and equations	1									
6.RP.A.3 Use ratio and rate reasoning to solve real-world and mathematical problems, e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations.	WALT create tables of equivalent ratios and find missing values with whole number measurements	1									
a. Make tables of equivalent ratios relating quantities with whole umber measurements, find missing values in the tables, and plot the airs of values on the coordinate plane. Use tables to compare ratios. Solve unit rate problems including those involving unit pricing and	WALT plot pairs of values, in the coordinate plane, from a ratio table to compare ratios	1									
sorve unit tale proteins including index involving and pricing and sistant speed. For example, if it took 7 hours to move 4 lawns, then at hat rate, how many lawns could be mowed in 35 hours? At what rate were lawns being mowed?	WALT solve unit rate problems, including unit pricing and constant speed	1									
Find a percent of a quantity as a rate per 100 (e.g., 30% of a quantity eans 30/100 times the quantity); solve problems involving finding the whole, given a part and the percent.	WALT find the part, whole, and percent of a quantity in real-world problems	1									
 Use ratio reasoning to convert measurement units; manipulate and ansform units appropriately when multiplying or dividing quantities. 	WALT unit ratios can be used to manipulate and transform units accurately	1									
	WALT convert measurement units utilizing ratio reasoning	1									

	Year at a Glance: Math - Gr. 6 Student Learning (Objectiv	es Clus	tered by	' Unit						
DOCUMENT KEY: WALT (That) indicates a concep	ot. WALT (To) indicates a skill. Focus - Explicit Instruction and Assessment Revisited and Reinforced Not Addressed in the Unit		Unit 1 Quotients of Fractions, Ratio and Rate Reasoning		Unit 2 Introductory Statistics			Unit 3		Ur	nit 4
Key NJSLS							Expressions, Equations, and Geometry			Integers in the Nun System	
	SLO	Units	1A	1B	2A	2B	3A	3 B	3C	4A	4 B
	The Number System										
	WALT compute quotients of fractions										
		1									
6.NS.A.1 Interpret and compute quotients of fractions and solve word problems involving division of fractions by fractions, e.g., by using visual fraction models and equations to represent the problem. For example, create a story context for (2/3) + (3/4) and use a visual fraction model to show the quotient; use the relationship between multiplication and division to explain that (2/3) + (3/4) = 8/9 because 3/4 of 8/9 is 2/3. (In general, (a/b) + (c/4) = a/b/c). How much chocolate will each person get if 3 people share 1/2 lb of chocolate equally? How many 3/4-cup servings are in 2/3 of a cup of yogurt? How wide is a rectangular strip of land with length 3/4 mi and area 1/2 square mi?	WALT interpret quotients of fractions	1									
	WALT solve word problems involving division of fractions by fractions using visual models and equations	1									
6.NS.B.2. Fluently divide multi-digit numbers using the standard algorithm.	WALT divide multi-digit numbers using the standard algorithm working towards accuracy and efficiency	1									
6.NS.B.3 Fluently add, subtract, multiply, and divide multi-digit decimals using the standard algorithm	WALT add, subtract, multiply, and divide multi-digit decimals using the standard algorithm for each operation, working towards accuracy and efficiency	1									
6.NS.B.4 Find the greatest common factor of two whole numbers less than or equal to 100 and the least common multiple of two whole numbers less than or equal to 12. Use the distributive property to express a sum of two whole numbers 1-100 with a common factor as a multiple of a sum of two whole numbers with no common factor. For example, express 36 + 8 as 4 (9 + 2).	WALT find the greatest common factor of two whole numbers that are less than or equal to 100	3									
	WALT find the least common multiple of two whole numbers that are less than or equal to 12	3									
	WALT use the distributive property to factor the greatest common factor from a sum of two whole numbers in the range 1 to 100	3									

OCUMENT KEY: WALT (That) indicates a concep	t. WALT (To) indicates a skill.											
· · · · · · · · · · · · · · · · · · ·			Ur	nit 1	Unit 2		Unit 3			Unit		
	Focus - Explicit Instruction and Assessment		Quotients o	Quotients of Fractions,								
Key	Revisited and Reinforced			nd Rate oning		luctory istics	Express	ions, Equa Geometr	ations, and	Integers in	the Numb tem	
	Not Addressed in the Unit		. iXeas	onng	Stat	istics		Geometr	3	598	tem	
NJSLS	SLO	Units	1A	1B	2A	2B	3A	3B	3 C	4A	4 B	
6.NS.C.5 Understand that positive and negative numbers are used together to describe quantities having opposite directions or values (e.g., temperature above/below zero, elevation above/below sea level, credits/debits, positive/negative electric charge); use positive and negative numbers to represent quantities in real-world contexts, explaining the meaning of 0 in each situation.	WALT the signs of an ordered pair indicate its quadrant location in the coordinate plane	4										
	WALT ordered pairs that differ only by signs are reflections across one or both axes	4										
6.NS.C.6 Understand a rational number as a point on the number line. Extend number line diagrams and coordinate axes familiar from previous grades to represent points on the line and in the plane with negative number coordinates. a. Recognize opposite signs of numbers as indicating locations on opposite sides of 0 on the number line; recognize that the opposite of the opposite of a number is the number line; e.g., -(-3) = 3, and that 0 is its own opposite. b. Understand signs of numbers in ordered pairs a indicating locations in quadrants of the coordinate plane; recognize that when two ordered pairs differ only by signs, the locations of the points are related by 	WALT locate numbers with opposite signs as points on opposite sides of zero on the number line	4										
	WALT the opposite of an opposite of a number is the number itself and that zero is its own opposite	4										
	WALT find and position integers and other rational numbers on a horizontal or vertical number line	4										
	WALT find and plot pairs of integers and other rational numbers on the coordinate plane	4										
reflections across one or both axes. Find and position integers and other rational umbers on a horizontal or vertical number line diagram; find and position pairs of integers and other rational numbers on a coordinate plane.	WALT the signs of an ordered pair indicate its quadrant location in the coordinate plane	4										
	WALT ordered pairs that differ only by signs are reflections across one or both axes	4										
	WALT represent the relative position of two numbers on a number line diagram		1	1 1								
6 NS C 7	using inequality statements	4										
6.NS.C.7 Understand ordering and absolute value of rational numbers. a. Interpret statements of inequality as statements about the relative position of two numbers on a number line diagram. For example, interpret 3-9-7 as a statement that -3 is located to the right of -7 on a	WALT write and interpret statements of order using rational numbers to explain real-world problems	4										

	Year at a Glance: Math - Gr. 6 Student Learning (Objectiv	ves Clus	tered by	Unit						
DOCUMENT KEY: WALT (That) indicates a concep Key	ot. WALT (To) indicates a skill. Focus - Explicit Instruction and Assessment Revisited and Reinforced		Unit 1 Quotients of Fractions, Ratio and Rate		Introductory					Unit 4 Integers in the Nu System	
	Not Addressed in the Unit		Ratio and Rate Introductory Expressions, Equations, and In Reasoning Statistics Geometry	Sys	tem						
NJSLS	SLO	Units	1A	1B	2A	2B	3A	3B	3C	4A	4B
 b. Write, interpret, and explain statements of order for rational numbers in real-world contexts. For example, write -3 o C > -7 o C to express the fact that -3 o C is warmer than -7 o C. c. Understand the absolute value of a rational number as its distance 	WALT absolute value of a rational number is its distance from zero on the number line	4									
 from 0 on the number line; interpret absolute value as magnitude for a positive or negative quantity in a realworld situation. For example, for an account balance of -30 dollars, write -30 = 30 to describe the size of the debt in dollars. d. Distinguish comparisons of absolute value from statements about order. For example recognize that an account balance less than -30 dollars. 	WALT express the magnitude of a positive or negative quantity in a real-world situation using absolute value	4									
dollars represents a debt greater man 30 dollars.	WALT statements about order are used to distinguish comparisons of absolute value	4									
6.NS.C.8 Solve real-world and mathematical problems by graphing points in all four quadrants of the coordinate plane. Include use of coordinates and absolute value to find distances between points with the same first coordinate or the same second coordinate.	WALT use coordinates and absolute value to find distances between points, with the same first coordinates or same second coordinates, in the four quadrants to solve real-world and mathematical problems	4									
	Expressions and Equation	IS									
6.EE.A.1.	WALT write a numerical expression using whole-number exponents	3									
Write and evaluate numerical expressions involving whole-number exponents.	WALT evaluate numerical expressions involving whole number exponents	3									
	WALT write an algebraic expression from a verbal description that includes operations, numbers, and variables	3									
6.EE.A.2 Write, read, and evaluate expressions in which letters stand for numbers a. Write expressions that record operations with numbers and with letters standing for numbers. For example, express the calculation "Subtract y from 5" as 5 – y.	WALT identify parts of an expression using mathematical terms (sum, term, product, factor, quotient, coefficient)	3									
 b. Identify parts of an expression using mathematical terms (sum, term, product, factor, quotient, coefficient); view one or more parts of an expression as a single entity. For example, describe the expression 2 (8 + 7) as a product of two factors; view (8 + 7) as both a single entity and a sum of two terms. 	WALT view one or more parts of an expression as a single entity	3									

OCUMENT KEY: WALT (That) indicates a concept				it 1	Ur	Unit 2		Unit 3		Un	it 4
Key	Focus - Explicit Instruction and Assessment Revisited and Reinforced Not Addressed in the Unit		Quotients of Fractions, Ratio and Rate Reasoning		Introductory Statistics		Expressions, Equations, and Geometry			Integers in the Number System	
NJSLS	SLO	Units	1A	1B	2A	2B	3A	3B	3C	4A	4 B
c. Evaluate expressions at specific values of their variables. Include expressions that arise from formulas used in real-world problems. Perform arithmetic operations, including those involving whole number exponents, in the conventional order when there are no parentheses to specify a particular order (Order of Operations). For example, use the formulas V = s ² and A = 6s ² to find the volume and surface area of a cube with sides of length s = ½.	WALT evaluate expressions, including formulas, for specific values of the variables	3									
	WALT perform arithmetic operations, utilizing the Order of Operations, that include whole number exponents and no parentheses	3									
6.EE.A.3 pply the properties of operations to generate equivalent expressions. or example, apply the distributive property to the expression $3(2 + x)$ to produce the equivalent expression $6 + 3x$; apply the distributive property to the expression $24x + 18y$ to produce the equivalent expression $6 (4x + 3y)$; apply properties of operations to $y + y + y$ to produce the equivalent expression $3y$.	WALT generate equivalent expressions using the properties of operations	3									
6.EE.A.4 Identify when two expressions are equivalent (i.e., when the two expressions name the same number regardless of which value is ubstituted into them). For example, the expressions $y + y + y$ and $3y$	WALT two expressions are equivalent when they name the same number regardless of which value is substituted into them	3									
e equivalent because they name the same number regardless of which number y stands for.	WALT identify when two expressions are equivalent	3									
6.EE.B.5 nderstand solving an equation or inequality as a process of answering question: which values from a specified set, if any, make the equation or inequality true? Use substitution to determine whether a given number in a specified set makes an equation or inequality true.	WALT determine if a given number from a specified set is a solution to an equation or an inequality using substitution	3									
6.EE.B.6 se variables to represent numbers and write expressions when solving	WALT variables are used to represent unknown numbers, including any number in a specified set	3									
a real-world or mathematical problem; understand that a variable can represent an unknown number, or, depending on the purpose at hand, any number in a specified set.	WALT write expressions using variables to represent real-world or mathematical situations	3									
6.EE.B.7	WALT write and solve equations of the form $x + p = q$ and $px = q$, where p, q,	3									
6.EE.B.8 Vrite an inequality of the form $x > c$ or $x < c$ to represent a constraint	WALT represent a constraint or condition in a real-world or mathematical	4									
or condition in a real world or mathematical problem. Recognize that nequalities of the form $x > c$ or $x < c$ have infinitely many solutions;	WALT inequalities of the form $x > c$ or $x < c$ have infinitely many solutions WALT represent the infinitely many solutions to the inequalities $x > c$ or $x < c$	4									

OCUMENT KEV, WALT (That) indicates a same	Year at a Glance: Math - Gr. 6 Student Learning (
OCUMENT KEY: WALT (That) indicates a concep	(That) indicates a concept. WALT (To) indicates a skill.		Unit 1		U	Unit 2		Unit 3			nit 4
	Focus - Explicit Instruction and Assessment			of Fractions,							
Key	Revisited and Reinforced			and Rate soning	Introductory Statistics		Expressions, Equations, and Geometry			Integers in the Numb System	
	Not Addressed in the Unit		. ixeas	soning	Stat	151105		Geometi	. 9	39.	tem
NJSLS	SLO	Units	1A	1B	2A	2B	3A	3 B	3C	4A	4 B
6.EE.C.9	WALT two quantities which change in relationship to one another are expressed as independent and dependent variables	3									
Use variables to represent two quantities in a real-world problem that change in relationship to one another; write an equation to express one quantity, thought of as the dependent variable, in terms of the other quantity, thought of as the independent variable. Analyze the relationship between the dependent and independent variables using graphs and tables, and relate these to the equation. For example, in a problem involving motion at constant speed, list and graph ordered	WALT write an equation using two quantities, an independent and a dependent variable, to represent a real-world problem	3									
	WALT analyze the relationship between the dependent and independent variables using graphs and tables and relate them to the equation	3									
				1	I	1			•		
	Geometry										
6.G.A.1 Find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles or decomposing into	WALT find the area of right triangles and other triangles by composing into	3									
	WALT find the area of special quadrilaterals and polygons by composing into	3									
triangles and other shapes; apply these techniques in the context of solving real-world and mathematical problems	WALT apply the techniques of finding area of polygons by composition or	3									
lengths by packing it with unit cubes of the appropriate unit fraction	WALT we can find the volume of a right rectangular prism with fractional edge	3									
edge lengths, and show that the volume is the same as would be found	WALT show that volume of a right rectangular prism is the same when	3									
y multiplying the edge lengths of the prism. Apply the formulas $V = I$ w h and $V = B$ h to find volumes of right rectangular prisms with	WALT find volumes of right rectangular prisms with fractional edge lengths	3									
6.G.A.3 Draw polygons in the coordinate plane given coordinates for the ertices; use coordinates to find the length of a side joining points with	WALT draw polygons in the coordinate plane given coordinates of the vertices	4									
the same first coordinate or the same second coordinate. Apply these techniques in the context of solving real-world and mathematical	WALT find the length of a side of a polygon using coordinates with the same	4									
problems.	WALT apply the technique of finding the length of a side of a polygon to solve	4									
	WALT represent three-dimensional figures made up of rectangles and triangles	3		1		1	-	1		1	1
6.G.A.4 Represent three-dimensional figures using nets made up of rectangles nd triangles, and use the nets to find the surface area of these figures. Apply these techniques in the context of solving real-world and	WALT represent three-dimensional rightes made up of rectangles and thangles WALT use the net to find the surface area of three-dimensional figures made up of rectangles and triangles	3									
mathematical problems.	WALT solve real-world and mathematical problems by using nets to find surface	3									
	Statistics and Probability	7	•			·	•				
6.SP.A.1	WALT a statistical question is one that anticipates variability in the data related to the question and accounts for it in the answers	2									
Recognize a statistical question as one that anticipates variability in the data related to the question and accounts for it in the answers. For example, "How old am 1?" is not a statistical question, but "How old are the students in my school?" is a statistical question because one		2									

OOCUMENT KEY: WALT (That) indicates a concep	indicates a concept. WALT (To) indicates a skill.		Ur	uit 1	Unit 2		Unit 3			Unit 4	
Key	Focus - Explicit Instruction and Assessment Revisited and Reinforced Not Addressed in the Unit		Quotients of Fractions, Ratio and Rate Reasoning		Introductory Statistics		Expressions, Equations, and Geometry			Integers in the N System	
NJSLS	SLO	Units	1A	1B	2A	2B	3A	3B	3C	4A	4 B
anticipates variability in students' ages.	WALT recognize statistical questions	2									
		1	1				1	1	-		
6.SP.A.2 Inderstand that a set of data collected to answer a statistical question has a distribution which can be described by its center, spread, and overall shape.	WALT a set of data collected to answer a statistical question has a distribution which can be described by its center, spread, and overall shape	2									
6.SP.A.3 Recognize that a measure of center for a numerical data set summarizes all of its values with a single number, while a measure of variation describes how its values vary with a single number.	WALT a measure of center (mean and median) for a numerical data set summarizes all of its values with a single number	2									
	WALT a measure of variation (interquartile range and mean absolute deviation) describes how its values vary with a single number	2									
6.SP.B.4 Display numerical data in plots on a number line, including dot plots, histograms, and box plots.	WALT display numerical data in plots on a number line, including dot plots, histograms, and box plots	2									
6.SP.B.5 ummarize numerical data sets in relation to their context, such as by:	WALT summarize numerical data sets in relation to their context, such as by reporting the number of observations and describing how it was measured and the units for the measurement	2									
a. Reporting the number of observations. Describing the nature of the attribute under investigation, including how it was measured and its units of measurement. c. Giving quantitative measures of center (median and/or mean) and riability (interquartile range and/or mean absolute deviation), as well s describing any overall pattern and any striking deviations from the overall pattern with reference to the context in which the data were gathered.	WALT describe overall patterns and any striking deviations from a data set by giving the measures of center (median and/or mean) and variability (interquartile range and/or mean absolute deviation) with reference to the context with which the data was collected	2									
Relating the choice of measures of center and variability to the shape the data distribution and the context in which the data were gathered.	WALT the shape of the data distribution and the context in which the data were gathered can be related to the choice of measures of center and variability	2									