OVERALL CLAIM: Students can demonstrate progress toward college and career readiness in mathematics.	POLICY ALD: The Level 1 student demonstrates minimal understanding of and ability to apply the mathematics knowledge and skills needed for success in college and careers, as specified in the Common Core State Standards.	POLICY ALD: The Level 2 student demonstrates partial understanding of and ability to apply the mathematics knowledge and skills needed for success in college and careers, as specified in the Common Core State Standards.	POLICY ALD: The Level 3 student demonstrates adequate understanding of and ability to apply the mathematics knowledge and skills needed for success in college and careers, as specified in the Common Core State Standards.	POLICY ALD: The Level 4 student demonstrates thorough understanding of and ability to apply the mathematics knowledge and skills needed for success in college and careers, as specified in the Common Core State Standards.	
CLAIM 1: Students can explain and apply mathematical concepts and carry out mathematical procedures with precision and fluency.	CONTENT ALD: The Level 1 student can minimally explain and in a minimal way apply mathematical concepts. The Level 1 student interprets and carries out mathematical procedures with minimal precision and fluency.	CONTENT ALD: The Level 2 student can partially explain and partially apply mathematical concepts. The Level 2 student interprets and carries out mathematical procedures with partial precision and fluency.	CONTENT ALD: The Level 3 student can adequately explain and adequately apply mathematical concepts. The Level 3 student interprets and carries out mathematical procedures with adequate precision and fluency.	CONTENT ALD: The Level 4 student can thoroughly explain and accurately apply mathematical concepts. The Level 4 student interprets and carries out mathematical procedures with high precision and fluency.	
Concepts and Procedures: Domain #1					
RANGE ALD Target A: Understand ratio concepts and use ratio reasoning to solve problems. 6.RP.1-3	Level 1 students should be able to describe a ratio relationship between two whole number quantities, find missing values in tables that display a proportional relationship, and plot the pairs of values from a table on the coordinate plane. They should be able to find a percent as a rate per hundred and convert measurement units.	Level 2 students should be able to understand the concept of unit rate in straightforward, well-posed problems and solve straightforward, well-posed, one- step problems requiring ratio reasoning.	Level 3 students should be able to use ratio reasoning to solve and understand the concept of unit rates in unfamiliar or multi-step problems, including instances of unit pricing and constant speed, and solve percent problems by finding the whole, given a part and the percent. They should be able to describe a ratio relationship between any two number quantities (denominators less than or equal to 12).	Level 4 students should be able to solve unfamiliar or multi-step problems by finding the whole, given a part and the percent; explain ratio relationships between any two number quantities; and identify relationships between models or representations.	
THRESHOLD ALD Ratios and Proportional Relationships Target A		<ul> <li>The student who just enters Level 2 should be able to:</li> <li>Find unit rates given two whole number quantities where one evenly divides the other.</li> </ul>	<ul> <li>The student who just enters Level 3 should be able to:</li> <li>Solve unit rate problems.</li> <li>Solve percent problems by finding the whole, given a part and the percent.</li> <li>Describe a ratio relationship between any two number quantities and understand the concept of unit rate in problems (denominators less than or equal to 12).</li> </ul>	<ul> <li>The student who just enters Level 4 should be able to:</li> <li>Solve unfamiliar or multi-step problems by finding the whole, given a part and the percent.</li> <li>Understand and explain ratio relationships between any two number quantities.</li> <li>Identify relationships between models or representations.</li> </ul>	

The Number System				
RANGE ALD	Level 1 students should be able to	Level 2 students should be able to apply and extend	Level 3 students should be able to apply and extend	Level 4 students should be able to
Target B: Apply and extend	apply and extend previous	previous understandings of multiplication and division	previous understandings of multiplication and division	use visual models in settings where
previous understandings of	understandings of multiplication and	to divide a whole number by a fraction between 0 and	to divide a fraction by a fraction and be able to connect	smaller fractions are divided by larger
multiplication and division to	division to multiply a fraction by a	1, divide a mixed number by a whole number, and be	to a visual model.	fractions. They should also
divide fractions by fractions.	fraction, divide a fraction by a whole	able to connect to a visual model.		understand and apply the fact that a
	number, and be able to connect to a			fraction multiplied or divided by 1 in
	visual model. They should			the form of <i>a/a</i> is equivalent to the
	understand the effect that a fraction			original fraction.
6 NS 1	greater than or less than 1 has on a			
0.110.1	whole number when multiplied and			
	use or create visual models when			
	multiplying a whole number by a			
	fraction between 0 and 1.			
RANGE ALD	Level 1 students should be able to	Level 2 students should be able to divide multi-digit	Level 3 students should be able to fluently divide	Level 4 students should be able to
Target C: Compute fluently with	add, subtract, and multiply multi-	whole numbers and add and subtract multi-digit	multi-digit numbers and add, subtract, multiply, and	make generalizations regarding
multi-digit numbers and find	digit whole numbers and decimals to	decimal numbers. They should be able to find common	divide multi-digit decimal numbers. They should be	multiples and factors of sets of
common factors and multiples.	hundredths. They should be able to	factors of two numbers less than or equal to 100 and	able to find the greatest common factor of two	numbers (e.g., state that a particular
	use the distributive property to	multiples of two numbers less than or equal to 12.	numbers less than or equal to 100 and the least	set of numbers is relatively prime).
6.NS.2-4	express the sum of two whole		common multiple of two whole numbers less than or	
	numbers with a common factor.		equal to 12.	The student when its test set and a set of the
THRESHOLD ALD		The student who just enters Level 2 should be able to:	The student who just enters Level 3 should be able to:	The student who just enters Level 4
Ine Number System Targets B		• Divide a whole number by a fraction between 0	Apply and extend previous understandings of	should be able to:
		and I and be able to connect to a visual model.	multiplication and division to divide a mixed	Use visual models in settings
		Add and subtract multi-digit decimals.	number by a fraction and be able to connect to a	divided by larger freetions
		Find common factors of two numbers less than or	VISUAI IIIUUEI.	ulvided by larger fractions.
		equal to 40.	<ul> <li>Multiply and divide multi-digit decimal numbers.</li> <li>Find the greatest semmen faster of two numbers.</li> </ul>	Onderstand and apply the fact that a fraction multiplied or
		• Find multiples of two numbers less than or equal	Find the greatest common factor of two numbers	divided by 1 in the form of a/a is
		to 12.	multiple of two numbers loss than or equal to 12	equivalent to the original fraction
		Expressions and Equations		equivalent to the original fraction.
RANGE ALD	Level 1 students should be able to	Level 2 students should be able to evaluate numerical	Level 3 students should be able to write and evaluate	Level 4 students should be able to
Target F: Apply and extend	evaluate numerical expressions	expressions with nonnegative integer exponents that	numerical expressions with nonnegative integer	apply the understanding of the
previous understandings of	without exponents: write one- or two-	do not need to be distributed across a set of	exponents and expressions from formulas in real-world	properties of operations and use the
arithmetic to algebraic	step numerical expressions: and	parentheses. They should be able to apply and extend	problems, and they should be able to apply and extend	properties to show why two
expressions	identify parts of an expression using	previous understandings of arithmetic to evaluate	previous understandings of arithmetic to evaluate	expressions are equivalent
	terms (e.g. coefficient term sum	expressions with variables that do not contain	expressions with variables that include nonnegative	
	product, difference, quotient, factor).	exponents. They should also be able to write one- and	integer exponents. They should be able to apply	
6.EE.1-4		two-step algebraic expressions that introduce a	properties of operations to generate equivalent	
		variable and identify equivalent expressions.	expressions.	
RANGE ALD	Level 1 students should be able to	Level 2 students should be able to solve one-variable	Level 3 students should be able to write one-variable	Level 4 students should be able to
Target F: Reason about and	use substitution to determine when	equations and inequalities of the form $x + p$	equations and inequalities of the form $x + p = \frac{  z }{2}$	solve equations and inequalities of
solve one-variable equations	a given number makes an equation	$=/\leq/\geq/$ q or px $=/\leq/\geq/$ q, where p and q are	> q or $px = \frac{\leq}{\geq} \neq q$ , where p and q are nonnegative	the form $x + p = \frac{  }{2}                                       $
and inequalities.	or inequality true.	nonnegative rational numbers. They should be able to	rational numbers. They should be able to reason about	$=/\leq/\geq/ q$ , where p and q are
		identify and use variables when writing equations.	and solve equations and inequalities by writing and	rational numbers. They should be
6 FF 5-8			graphing their solutions on a number line.	able to write and graph solutions on
0.22.00				the number line.

## GRADE 6

RANGE ALD	Level 1 students should be able to	Level 2 students should be able to use variables to	Level 3 students should be able to use graphs, tables.	Level 4 students should be able to	
Target G: Represent and	identify a table that represents a	represent and analyze two quantities that change in	or context to analyze the relationship between	use graphs tables or context to	
analyze quantitative	relationship between two variables	relationship to each other of the form $v = kx$ or $v = x + y$	dependent and independent variables and relate them	analyze nonlinear polynomial	
relationships between	of the forms $v = kx$ and $v = x + c$ with	c with rational numbers: identify and create an	to a linear equation	relationships between dependent and	
dependent and independent	rational numbers and plot points	equation that expresses one quantity in terms of		independent variables and relate	
variables	corresponding to equations on	another: and use graphs and tables to represent the		them to nonlinear polynomial	
6.EE.9	coordinate planes	relationship		equations	
THRESHOLD ALD		The student who just enters Level 2 should be able to:	The student who just enters Level 3 should be able to:	The student who just enters Level 4	
Expressions and Equations		Evaluate expressions with and without variables	Write and evaluate numerical expressions without	should be able to:	
Targets F. F. and G		and without expressions with and without valuates	exponents and expressions from formulas in real-	<ul> <li>Using the properties of operations</li> </ul>	
		Write one, and two step algebraic expressions	world problems	show why two expressions are	
		• While one- and two-step algebraic expressions	<ul> <li>Identify equivalent expressions</li> </ul>	equivalent	
		A Salva and variable assistions and incrualities of	<ul> <li>Identify equivalent expressions.</li> <li>Write one variable equations and inequalities of the</li> </ul>	<ul> <li>Solve equations and inequalities</li> </ul>	
		• Solve one-variable equations and inequalities of the form $y \perp p = \frac{1}{2} $	• Write one-variable equations and inequalities of the form $x + p = \frac{1}{2} $	• Solve equations and mequalities of the form $y + p = \frac{3}{2} \frac{3}{2} \frac{3}{2}$	
		the form $x + p - \frac{1}{2} \frac{2}{\sqrt{7}} q$ of $px - \frac{1}{2} \frac{2}{\sqrt{7}} q$ ,	$101111 x + p - \frac{1}{2}\frac{2}{3} \sqrt{9} q 01 px - \frac{1}{2}\frac{2}{3}\sqrt{9} q$ , where	of the form $x + p = \frac{y}{2} + \frac{y}$	
		where $p$ and $q$ are nonnegative rational numbers.	$\rho$ and $q$ are nonnegative rational numbers.	$p_{X} = \frac{1}{2} \frac{1}$	
		• Given a table of values for a linear relationship (y =	Graph solutions to equations and inequalities on	are rational numbers.	
		$xx$ or $y = x \pm c$ ), create the equation.	the number line.	Create the graph, table, and     aquation for poplinger polynomial	
			• Create the graph, table, and equation for a linear	relationships, making connections	
			relationship ( $y = kx$ or $y = x \pm c$ ) and make	hetween the representations	
			connections between the representations.	between the representations.	
		Concepts and Procedures: Domain	#2		
		The Number System		F	
RANGE ALD	Level 1 students should be able to	Level 2 students should be able to apply and extend	Level 3 students should be able to apply and extend		
larget D: Apply and extend	place all integers on a number line	previous understandings of whole numbers to order	previous understandings of numbers to relate		
previous understandings of	and integer pairs on a coordinate	rational numbers and interpret statements of their	statements of inequality to relative positions on a		
numbers to the system of	plane with one-unit increments on	order in the context of a situation. They should be able	number line, place points with rational coordinates on		
rational numbers.	both axes.	to place all rational numbers on a number line and	a coordinate plane, and solve problems involving the		
		integer pairs on a coordinate plane with various axis	distance between points when they share a		
6 NS 5-8		increments. They should be able to relate changes in	coordinate. They should be able to understand		
0.110.3-0		sign to placements on opposite sides of the number	absolute value and ordering by using number lines and		
		line and understand the absolute value of a number as	models and relate reflection across axes to changes in		
		its distance from zero on a number line.	sign.		
THRESHOLD ALD		The student who just enters Level 2 should be able to:	The student who just enters Level 3 should be able to:		
The Number System Target D		<ul> <li>Order fractions and integers.</li> </ul>	Place points with rational coordinates on a		
		Place integer pairs on a coordinate plane with axis	coordinate plane and combine absolute value and		
		increments of 2, 5, or 10.	ordering, with or without models ( -3 < -5 ).		
Geometry					
RANGE ALD	Level 1 students should be able to	Level 2 students should be able to find areas of	Level 3 students should be able to solve problems that	Level 4 students should be able to	
Target H: Solve real-world and	find areas of right triangles; draw	special quadrilaterals and triangles; draw polygons in	involve finding areas of polygons and special	solve problems by finding surface	
mathematical problems	polygons with positive coordinates	the four-quadrant coordinate plane with scales in one-	quadrilaterals and triangles and find the volume of	areas of three-dimensional shapes	
involving area, surface area,	on a grid with a scale in one-unit	unit increments, given integer-valued coordinates for	right rectangular prisms with all sides expressed as a	composed of rectangles and	
and volume.	increments, given nonnegative	the vertices; and find the volume of right rectangular	traction or a mixed number. They should be able to	triangles. They should be able to find	
	integer-valued coordinates for the	prisms with one side expressed as a fraction or a	solve problems by drawing polygons in the four-	the volume of a compound figure	
	vertices; and find the volume of right	mixed number.	quadrant coordinate plane with scales in various	composed of right rectangular prisms	
6.G.1-4	rectangular prisms with one side		integer increments, given integer-valued coordinates	to solve problems.	
	expressed as a fraction or a		for the vertices or coordinates containing a mix of		
	mixed number in halves or fourths.		integers and half, quarter, or tenth units.		

## GRADE 6

THRESHOLD ALD		The student who just enters Level 2 should be able to:	The student who just enters Level 3 should be able to:	The student who just enters Level 4
Geometry Target H		• Find areas of special quadrilaterals and triangles.	• Find areas of quadrilaterals and other polygons that	should be able to:
		<ul> <li>Draw polygons in the four-quadrant plane.</li> </ul>	can be decomposed into three or fewer triangles.	• Solve problems by finding surface
			• Find the volume of right rectangular prisms with	areas of triangular or rectangular
			fractional or mixed number side lengths.	prisms and triangular or
				rectangular pyramids.
		Statistics and Probability		
RANGE ALD	Level 1 students should be able to	Level 2 students should be able to recognize that	Level 3 students should be able to pose statistical	Level 4 students should be able to
Target I: Develop	identify questions that lead to	questions that lead to variable responses are	questions and understand that the responses to a	justify the reasonableness of their
understanding of statistical	variable responses posed in familiar	statistical questions and vice versa, and they should	statistical question have a distribution described by its	identified center and spread with
variability.	contexts and recognize that such	relate the concept of varying responses to the notion	center, spread, and overall shape. They should also	respect to an unfamiliar context. They
-	questions are statistical questions.	of a range of possible responses. They should develop	understand that a measure of center summarizes all	should be able to create or complete
		an understanding that the responses to a statistical	of its values with a single number, while a measure of	a data set with given measures (e.g.,
6.SP.1-3		question will have a representative center and a given	variation describes how its values vary with a single	mean, median, mode, interquartile
		set of numerical data. They should be able to identify a	number. They should be able to identify a reasonable	range).
		reasonable measure of central tendency with respect	center and spread with respect to a context.	
		to a familiar context.		
RANGE ALD	Level 1 students should be able to	Level 2 students should be able to calculate mean and	Level 3 students should be able to summarize or	Level 4 students should be able to
Target J: Summarize and	summarize or display numerical data	median, understand that mean and median can be	display data in box plots and find the interquartile	relate choice of measures of center
describe distributions.	on a number line, in dot plots, and in	different or the same, and use the measure of center	range. They should be able to use the interquartile	and variability to the shape of the
	histograms; find the median of an	to summarize data with respect to the context.	range along with the angle and measures of center to	data distribution in context of the
	odd number of data points; and find		describe overall patterns in a data distribution, such as	data; find mean absolute deviation
	the mean when data points are		symmetry and clusters, and any striking deviations.	and identify outliers with reference to
6 SP 4-5	nonnegative integers.		They should also be able to examine a data set in	the context of the situation; and
0.01.4.0			context and explain the choice of the mean or median,	predict effects on the mean and
			as it relates to the data.	median, given a change in data
				points.
THRESHOLD ALD		The student who just enters Level 2 should be able to:	The student who just enters Level 3 should be able to:	The student who just enters Level 4
Statistics and Probability		<ul> <li>Understand that questions that lead to variable</li> </ul>	Identify a reasonable center and spread for a given	should be able to:
Targets I and J		responses are statistical questions and vice versa.	context and understand how this relates to the	<ul> <li>Predict effects on mean and</li> </ul>
		Identify a reasonable measure of central tendency	overall shape of the data distribution.	median given a change in data
		for a given set of numerical data.	Understand that a measure of center summarizes	points.
		Find mean and median.	all of its values with a single number.	Complete a data set with given
			Summarize or display data in box plots.	measures (e.g., mean, median,
			Find the interguartile range.	mode, interquartile range).
			Use range and measures of center to describe the	
			shape of the data distribution as it relates to a	
			familiar context.	
			Pose statistical questions	

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