

Math
Grade 6

PLD	Standard	Minimally Proficient	Partially Proficient	Proficient	Highly Proficient
		The Minimally Proficient student	The Partially Proficient student	The Proficient student	The Highly Proficient student
Ratios and Proportional Relationships					
Detailed	6.RP.A [1 to 2]	Identifies unit rates and describes them using basic language or notation.	Describes the concept of ratio using a limited variety of representations and determines a unit rate.	Uses the concept of a ratio, ratio language, ratio notation, and unit rate associated with a ratio to precisely describe a ratio relationship between two quantities and within context.	Uses and connects between representation for ratio situations and finds unit rates requiring multiple steps.
Detailed	6.RP.A.3 [a to d]	Identifies proportional relationships presented in graphical, tabular, or verbal formats, knows the meaning of a percent of a quantity as a rate per hundred, and finds missing values in tables and plots values on the coordinate plane using whole numbers.	Uses a limited variety of representations to solve ratio and unit rate problems involving whole numbers and to convert measurement units, finds the percent of a quantity, and manipulates units appropriately when multiplying or dividing quantities.	Uses ratio and rate reasoning to convert measurement units and solve real-world problems, solves unit rate problems including those involving unit pricing and constant speed, determines the percent of a quantity as a rate per 100, and solves problems involving finding the whole given a part and a percent.	Creates and applies ratio reasoning to solve real-world problems including those involving percent or conversion of measurement units.

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The Number System					
Detailed	6.NS.A [1]	Solves problems in contexts involving division of whole numbers by unit fractions using visual fraction models and equations.	Solves problems in contexts involving division of fractions by non-zero whole numbers and vice versa using visual fraction models and equations.	Solves problems in contexts involving division of fractions by fractions and interprets the solution in context.	Solves problems in contexts involving multi-step division problems involving mixed numbers and interprets the solution in context.
Detailed	6.NS.B [2 to 3]	Adds, subtracts, multiplies where decimals are limited to hundredths, and finds whole number quotients and remainders where dividends are up to four digits and divisors are one digit using strategies based on place value, the properties of operations, and the relationship between operations.	Adds, subtracts, multiplies where dividends are limited to whole numbers, and finds whole number quotients and remainders where dividends are up to four digits and divisors are up to two digits using strategies based on place value, the properties of operations, and the relationship between operations.	Fluently adds, subtracts, multiplies and divides multi-digit numbers including multi-digit decimals using the standard algorithm for each operation.	Solves real world problems by adding, subtracting, multiplying and dividing multi-digit numbers including multi-digit decimals using the standard algorithm for each operation and assesses the reasonableness of the result.
Detailed	6.NS.B [4]	Finds common factors of two whole numbers less than or equal to 50 and common multiples of two whole numbers less than or equal to 10 using strategies including a visual model.	For two whole numbers, finds the greatest common factor less than or equal to 50 and the least common multiple less than or equal to 10.	For two whole numbers, finds the greatest common factor less than or equal to 100 and the least common multiple less than or equal to 12 and uses the distributive property to express a sum of two whole numbers from 1	Interprets a context to construct an equivalent expression using the greatest common factor, least common multiple, and the distributive property.

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				to 100 with a common factor as a multiple of a sum of two whole numbers with no common factor.	
Detailed	6.NS.C [5 to 9]	Plots integer pairs on a coordinate plane and on a horizontal number line, compares two numbers on a number line, finds the absolute value of a rational number, and determines the distance between two points on the coordinate plane by counting spaces.	Plots rational pairs on a coordinate plane and on a horizontal or vertical number line, determines the meaning of zero in context, compares two numbers including absolute values, and determines the distance between two points with the same first or second coordinate. Converts between expressions for positive rational numbers including fractions and decimals.	Uses positive and negative numbers to represent quantities in real world contexts, recognizes that when two ordered pairs differ only by sign then the locations are related to reflections over one or both axes, and uses absolute value to find the distance between two points with the same first or second coordinate. Converts between expressions for positive rational numbers including fractions, decimals, and percents.	Solves real world problems involving the coordinate plane and absolute values.

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Expressions and Equations					
Detailed	6.EE.A [1 to 4]	Recognizes exponential notation as repeated multiplication, identifies an expression matching a written statement where variables represent numbers, evaluates an expression at a specific value for a variable, and identifies when two simple expressions are equivalent.	Evaluates a single term involving whole number exponents, recognizes one or more parts of an expression as a single entity, evaluates an expression at specific values for each variable, and applies properties of operations to identify equivalent expressions.	Performs arithmetic operations including whole number exponents when no parenthesis or parentheses are present and applies properties of operations to identify and generate equivalent expressions.	Evaluates multi-step problems and generates equivalent expression involving rational numbers and whole number exponents in real world contexts.
Detailed	6.EE.B [5 to 8]	Uses substitution to determine whether a given value for a variable makes an equation or inequality true using whole numbers and recognizes that inequalities of the form $x < c$ and $x > c$ have infinitely many solutions and identifies them on a number line.	Solves an equation or inequality with a single operation using substitution to determine whether a given value in a set of values for a variable makes an equation or inequality true, and identifies solutions to compound inequalities on a number line.	Solves an equation or inequality as a process to answer a question and determines which value(s) in a set of values for a variable makes an equation or inequality true, and uses inequalities to show constraints in a real world context.	Creates a set of values that make an equation or inequality true, and creates a real world situation that corresponds to a given expression or constraint.
Detailed	6.EE.C [9]	Given a graph or table, identifies an algebraic equation for two quantities that change in relationship to one another.	Given a graph or table, identifies the dependent and independent variables and creates an algebraic equation to represent how these	Given a real world context, creates an equation to express the relationship between the dependent and independent variables	Creates a real world context using dependent and independent variables.

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			quantities change in relationship to one another.	and creates graphs and tables relating to the equation.	
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Geometry					
Detailed	6.G.A [1 to 3]	Finds the area given all the measurements for triangles or polygons decomposed into rectangles and triangles, finds the volume of a right rectangular prism with whole number edges, and creates polygons in the coordinate plane given coordinates for the vertices.	Finds the area given some measures for triangles or polygons by decomposing into rectangles and triangles, finds the volume of a right rectangular prism with one fractional edge, and uses coordinates to find the length of a side joining points with the same first or second coordinate.	Solves a real world context by finding the area given some measures for triangles or polygons by decomposing into rectangles and triangles, finds the volume of a right rectangular prism with fractional edges, and using coordinates for vertices of a polygon.	Solves real world multi-step geometric problems including decimal and fractional measurements, finds missing side length of a right rectangular prism given a volume and fractional side lengths, and finds a missing vertex of a polygon given other vertices.
Detailed	6.G.A [4]	Represents three-dimensional figures using nets comprised of rectangles and triangles.	Finds surface area for three-dimensional figures using nets.	Solves real world problems by finding surface area for three-dimensional figures using nets with whole number edges.	Solves real world problems by finding surface area for three-dimensional figures using nets with fractional edges.

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Statistics and Probability					
Detailed	6.SP.A [1 to 3]	Recognizes a statistical question from a list of questions, identifies a graph given a data set or vice versa, and recognizes mean, median, and mode as a measure of center and range as a measure of variation.	Changes a question from being non-statistical to statistical, demonstrates that a set of data collected to answer a statistical question has a distribution that can be described by its measure of center and spread, and determines mean, median, mode, and range.	Recognizes that a statistical question anticipates variability, demonstrates that a set of data collected to answer a statistical question can be described by its measure of center and spread and overall shape, and recognizes that a measure of center summarizes all the values of a data set with a single value.	Creates a statistical question given a context, creates a data set with a given measure of center and/or spread and/or overall shape, and determines how additional data points impact the measure of center and/or spread and/or overall shape.
Detailed	6.SP.A [4 to 5]	Identifies an appropriate display for numerical data including dot plots, histograms, and box plots, and summarizes data from a line plot by counting the number of observations, determining the range, and/or a measure of center.	Constructs an appropriate display for numerical data including dot plots, histograms, and box plots, and summarizes data from a line plot by counting the number of observations, determining the range, and/or a measure of center, and identifying outliers or other striking deviations.	Summarizes numerical data sets in relation to their context.	Creates a histogram or box plot given a dot plot and creates a data set given a display.