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Nevada Academic Content Standards, Grade 6 Alignments to SuccessMaker

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Nevada Academic Content Standards in Mathematics Standards Code	Nevada Academic Content Standards in Mathematics, Grade 6	SuccessMaker Item Description	Item ID
CCSS.Math.Content.6.RP	Ratios and Proportional Relationships		
CCSS.Math.Content.6.RP.A	Understand ratio concepts and use ratio reasoning to solve problems.		
CCSS.Math.Content.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.		
CCSS.Math.Content.6.RP.A.3a	Make tables of equivalent ratios relating quantities with whole-number measurements, find missing values in the tables, and plot the pairs of values on the coordinate plane. Use tables to compare ratios.	Complete a comparison statement based on the ratios in two tables.	SMMA_LO_02116
CCSS.Math.Content.6.RP.A.3b	Solve unit rate problems including those involving unit pricing and constant speed. Example: For example, if it took 7 hours to mow 4 lawns, then at that rate, how many lawns could be mowed in 35 hours? At what rate were lawns being mowed?	Find the number of hours worked given the hourly rate and total earned.	SMMA_LO_01625
CCSS.Math.Content.6.RP.A.3c	Find a percent of a quantity as a rate per 100 (e.g., 30% of a quantity means 30/100 times the quantity); solve problems involving finding the whole, given a part and the percent.	Determine the percent (100 total items).	SMMA_LO_01713
CCSS.Math.Content.6.NS	The Number System		
CCSS.Math.Content.6.NS.A	Apply and extend previous understandings of multiplication and division to divide fractions by fractions.		

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CCSS.Math.Content.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. Example: 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*/*d*) = *ad*/*bc*.) 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?	Divide a mixed number by a fraction; simplify if necessary.	SMMA_LO_01789
		Divide a fraction by a fraction; simplify if necessary.	SMMA_LO_01788
CCSS.Math.Content.6.NS.B	Compute fluently with multi-digit numbers and find common factors and multiples.		
CCSS.Math.Content.6.NS.B.2	Fluently divide multi-digit numbers using the standard algorithm.	Move the decimal point in the divisor and dividend in a long division problem.	SMMA_LO_00247
		Divide using the long division algorithm (one-digit divisor, remainder).	SMMA_LO_00295
		Practice division using basic facts; dividend, divisor less than or equal to 20.	SMMA_SG_00620
		Divide using the long division algorithm (three-digit dividend, one-digit divisor, remainder).	SMMA_LO_00298
		Divide using the long division algorithm (three-digit dividend, one-digit divisor, remainder).	SMMA_LO_00297
		Divide using the long division algorithm (four-digit dividend, one-digit divisor, remainder).	SMMA_LO_00300

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		Practice division using basic facts; dividend, divisor less than or equal to 20.	SMMA_SG_00670
		Divide using the long division algorithm (three-digit dividend, one-digit divisor, no remainder).	SMMA_LO_00296
		Move the decimal point in the divisor and dividend in a long division problem; then find the quotient.	SMMA_LO_00249
		Divide using the long division algorithm (three-digit number, two-digit divisor, remainder).	SMMA_LO_00304
		Practice division using basic facts; dividend, divisor less than or equal to 20.	SMMA_SG_00600
CCSS.Math.Content.6.NS.B.3	Fluently add, subtract, multiply, and divide multi-digit decimals using the standard algorithm for each operation.	Divide decimals (0.3 x 0.3 to 0.9 x 0.09).	SMMA_LO_00245
		Move the decimal point in the divisor and dividend in a long division problem.	SMMA_LO_00247
		Align the decimal numbers for a vertical subtraction problem; then solve (to thousandths).	SMMA_LO_00228
		Subtract decimals with regrouping (to ten-thousandths).	SMMA_LO_00243
		Multiply decimals (to ten-thousandths x ten-thousandths).	SMMA_LO_00244
		Multiply decimals (to thousandths x hundredths).	SMMA_LO_00234
		Divide decimals (0 x 2 to 2 x 5).	SMMA_LO_00251
		Subtract the decimal numbers provided on a data table.	SMMA_LO_01786
		Move the decimal point in the divisor and dividend in a long division problem; then find the quotient.	SMMA_LO_00249
		Add the decimal numbers provided on a data table.	SMMA_LO_01785
		Align the decimal numbers in a vertical subtraction problem; then solve (decimals to thousandths).	SMMA_LO_00233
		Multiply a whole number or a decimal by 0.1, 0.01, or 0.001.	SMMA_LO_00252

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		Solve for a or b in a ÷ b = c (up to 4-digit decimals).	SMMA_LO_00378
		Align the decimal numbers for a vertical addition problem; then solve (to thousandths).	SMMA_LO_00226
CCSS.Math.Content.6.NS.C	Apply and extend previous understandings of numbers to the system of rational numbers.		
CCSS.Math.Content.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.	Use positive and negative numbers together to represent quantities having opposite directions or values.	SMMA_LO_02066
CCSS.Math.Content.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.		
CCSS.Math.Content.6.NS.C.6b	Understand signs of numbers in ordered pairs as 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 reflections across one or both axes.	Given two points, describe how the points are related: reflected across the x-axis, reflected across the y-axis, or reflected across both axes.	SMMA_LO_02108
CCSS.Math.Content.6.NS.C.6c	Find and position integers and other rational numbers on a horizontal or vertical number line diagram; find and position pairs of integers and other rational numbers on a coordinate plane.	Locate the missing integer on a number line (-3 to -12).	SMMA_LO_00101
		Graph points on a coordinate plane based on a real-world context.	SMMA_LO_02112

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CCSS.Math.Content.6.NS.C.7	Understand ordering and absolute value of rational numbers.		
CCSS.Math.Content.6.NS.C.7b	Write, interpret, and explain statements of order for rational numbers in real-world contexts. Example: For example, write -3 °C > -7 °C to express the fact that -3 °C is warmer than -7 °C.	Compare rational numbers in real-world contexts.	SMMA_LO_02109
		Determine the least or greatest integer (-10 to 10).	SMMA_LO_01102
		Complete statements of order for rational numbers in real-world contexts.	SMMA_LO_02110
CCSS.Math.Content.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.	Graph points on a coordinate plane based on a real-world context.	SMMA_LO_02112
CCSS.Math.Content.6.EE	Expressions and Equations		
CCSS.Math.Content.6.EE.A	Apply and extend previous understandings of arithmetic to algebraic expressions.		
CCSS.Math.Content.6.EE.A.1	Write and evaluate numerical expressions involving whole-number exponents.	Give the value of a number (1 to 10) raised to a power (1 to 5).	SMMA_LO_01098
CCSS.Math.Content.6.EE.A.2	Write, read, and evaluate expressions in which letters stand for numbers.		
CCSS.Math.Content.6.EE.A.2a	Write expressions that record operations with numbers and with letters standing for numbers. Example: For example, express the calculation “Subtract y from 5” as 5 - y.	Write expressions that record operations with numbers and variables.	SMMA_LO_02056

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CCSS.Math.Content.6.EE.A.2b	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. Example: 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.	Identify parts of an expression using mathematical terms (sum, term, product, factor, quotient, coefficient).	SMMA_LO_02057
CCSS.Math.Content.6.EE.A.2c	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). Example: For example, use the formulas $V = s^3$ and $A = 6 s^2$ to find the volume and surface area of a cube with sides of length s = 1/2.	Match expressions with repeated factors to numbers in exponential form to create equations.	SMMA_LO_01100
		Evaluate an expression within a context (multiplication).	SMMA_LO_01740
		Evaluate an expression with variables using substitution and a value chart (addition, sums to 18).	SMMA_LO_01685
		Evaluate an expression using the order of operations.	SMMA_LO_01091
		Given the value for the variable, evaluate an addition expression (sums 4 to 12).	SMMA_LO_01683
		Evaluate the expression mx + c or mx - c.	SMMA_LO_01739

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CCSS.Math.Content.6.EE.A.3	Apply the properties of operations to generate equivalent expressions. Example: For 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.	Apply the properties of operations to generate equivalent expressions.	SMMA_LO_02059
CCSS.Math.Content.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 substituted into them). Example: For example, the expressions y + y + y and 3y are equivalent because they name the same number regardless of which number y stands for.	Choose all expressions that are equivalent to a given expression.	SMMA_LO_02060
CCSS.Math.Content.6.EE.B	Reason about and solve one-variable equations and inequalities.		
CCSS.Math.Content.6.EE.B.5	Understand solving an equation or inequality as a process of answering a 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.	Use substitution to determine whether a given number in a specified set makes an equation or inequality true.	SMMA_LO_02061
CCSS.Math.Content.6.EE.B.7	Solve real-world and mathematical problems by writing and solving equations of the form x + p = q and px = q for cases in which p, q and x are all nonnegative rational numbers.	Solve for a in a/b = c.	SMMA_LO_01798
		Solve for a or b in a ÷ b = c (combinations 2 ÷ 10 to 5 ÷ 12).	SMMA_LO_00359
		Solve for a or b in a ÷ b = c (combinations 6 ÷ 10 to 9 ÷ 12).	SMMA_LO_00361

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		Solve a one-step equation in context (addition, two-digit whole numbers).	SMMA_LO_01743
		Solve for a or b in a x b = x (products 2 x 10 to 12 x 12).	SMMA_LO_00363
		Solve for a or b in a ÷ b = c (combinations 6 ÷ 20 to 9 ÷ 90, multiples of 10).	SMMA_LO_00365
		Solve for a or b in a x b = c (products from 0.02 x 0.13 to 0.09 x 0.19).	SMMA_LO_00376
		Solve a one-step equation in context (subtraction, two-digit whole numbers).	SMMA_LO_01744
		Solve for a or b in a x b = x (products 2 x 20 to 12 x 90, multiples of 10).	SMMA_LO_00366
		Solve for a or b in a + b = c (decimals to tenths, no regrouping).	SMMA_LO_00367
		Solve one-step equations (addition and subtraction, fractions).	SMMA_LO_01796
		Solve for x in ax = c in steps (products 4 x 4 to 9 x 10).	SMMA_LO_00380
		Complete the steps to solve for a in a ÷ b = c (combinations 4 x 4 to 9 x 10).	SMMA_LO_00381
		Solve a one-step equation (subtraction).	SMMA_LO_01688
		Solve for a or b in a ÷ b = c (combinations 0.6 ÷ 0.6 to 0.9 ÷ 0.9).	SMMA_LO_00370
		Solve for a or b in a x b = c (products from 0.2 x 0.6 to 0.9 x 0.9).	SMMA_LO_00369
		Solve for a or b in a - b = c (decimals to tenths, regrouping).	SMMA_LO_00368
		Solve a one-step equation in context (division, two-digit whole numbers).	SMMA_LO_01747
		Solve a one-step equation (division).	SMMA_LO_01692
		Solve for a in a + b = c or a - b = c in steps (whole number sums and differences 2 to 20).	SMMA_LO_00379
		Solve a one-step equation in context (division, two-digit whole numbers).	SMMA_LO_01745

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		Solve for a or b in a x b = c (products 6 x 2 to 9 x 12).	SMMA_LO_00357
		Solve a one-step equation (multiplication).	SMMA_LO_01690
CCSS.Math.Content.6.EE.B.8	Write an inequality of the form $x > c$ or $x < c$ to represent a constraint or condition in a real-world or mathematical problem. Recognize that inequalities of the form $x > c$ or $x < c$ have infinitely many solutions; represent solutions of such inequalities on number line diagrams.	Write an inequality of the form x > c or x < c to represent a constraint in a real-world problem. Then represent the solution on a number line.	SMMA_LO_02065
CCSS.Math.Content.6.G	Geometry		
CCSS.Math.Content.6.G.A	Solve real-world and mathematical problems involving area, surface area, and volume.		
CCSS.Math.Content.6.G.A.2	Find the volume of a right rectangular prism with fractional edge lengths by packing it with unit cubes of the appropriate unit fraction edge lengths, and show that the volume is the same as would be found by multiplying the edge lengths of the prism. Apply the formulas $V = l\ w\ h$ and $V = b\ h$ to find volumes of right rectangular prisms with fractional edge lengths in the context of solving real-world and mathematical problems.	Find the volume of a rectangular solid by counting cubes.	SMMA_LO_00829
		Find the volume of a rectangular solid by counting cubes.	SMMA_LO_00833
CCSS.Math.Content.6.G.A.4	Represent three-dimensional figures using nets made up of rectangles and triangles, and use the nets to find the surface area of these figures. Apply these techniques in the context of solving real-world and mathematical problems.	Identify the net that forms a three-dimensional solid.	SMMA_LO_01772
CCSS.Math.Content.6.SP	Statistics and Probability		
CCSS.Math.Content.6.SP.B	Summarize and describe distributions.		
CCSS.Math.Content.6.SP.B.4	Display numerical data in plots on a number line, including dot plots, histograms, and box plots.	Identify data sets that match the data represented in a given box-and-whiskers plot.	SMMA_LO_01202

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		Identify box-and whiskers plot that matches a given set of data.	SMMA_LO_01201
		Measure the amount of rainfall for the week; then complete the chart and determine the total amount of rainfall for the month.	SMMA_LO_01327
		Find the five values (upper and lower extremes, median, and upper and lower quartiles) from a set of data that are needed to create a box-and-whiskers plot.	SMMA_LO_01199
		Read and interpret a line plot.	SMMA_LO_01764
CCSS.Math.Content.6.SP.B.5	Summarize numerical data sets in relation to their context, such as by:		
CCSS.Math.Content.6.SP.B.5c	Giving quantitative measures of center (median and/or mean) and variability (interquartile range and/or mean absolute deviation), as well as describing any overall pattern and any striking deviations from the overall pattern with reference to the context in which the data were gathered.	Find the five values (upper and lower extremes, median, and upper and lower quartiles) from a set of data that are needed to create a box-and-whiskers plot.	SMMA_LO_01199
		Determine the range of a set of data.	SMMA_LO_01766
		Find the range of a set of data.	SMMA_LO_01166
		Determine the average (mean), median, mode, and range.	SMMA_LO_01210
		Identify the median of a data set with an odd number of items.	SMMA_LO_01168
		Determine the range of a set of data represented in a line graph.	SMMA_LO_01176