



Pearson



SuccessMaker[®]

**Missouri Mathematics Learning Standards:
Grade Level Expectations 2016, Grade 4**

Alignments to SuccessMaker

Providing rigorous intervention
for K-8 learners with unparalleled precision

Missouri Learning Standards Code	Missouri Mathematics Learning Standards: Grade Level Expectations, 2016 Grade 4	SuccessMaker Item Description	Item ID
NS	Number Sense		
NBT	Number Sense and Operations in Base Ten		
NBT.A	Use place value understanding and properties of operations to perform multi-digit arithmetic with numbers up to one million.		
NBT.A.1	Round multi-digit whole numbers to any place.	Round a three- to five-digit number to the nearest hundred.	SMMA_LO_01081
		Round four- to five-digit numbers in context (to the nearest thousand).	SMMA_LO_01106
NBT.A.3	Compare two multi-digit numbers using the symbols $>$, $=$ or $<$, and justify the solution.	Identify a set of numbers between two numbers, or less than or greater than a given number (101 to 999).	SMMA_LO_01068
		Compare two whole numbers (three to seven-digit numbers).	SMMA_LO_01711
		Compare numbers (1,000 to 9,999).	SMMA_LO_01039
NBT.A.5	Demonstrate fluency with addition and subtraction of whole numbers.	Practice addition using basic facts; sums less than or equal to 20.	SMMA_SG_00410
		Practice subtraction using basic facts; minuends, subtrahends less than or equal to 12.	SMMA_SG_00400
		Practice addition using basic facts; sums less than or equal to 20.	SMMA_SG_00470
		Practice subtraction using basic facts; minuends, subtrahends less than or equal to 12.	SMMA_SG_00440
		Practice subtraction using basic facts; minuends, subtrahends less than or equal to 12.	SMMA_SG_00480

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NBT.A.6	Multiply a whole number of up to four digits by a one-digit whole number and multiply two two-digit numbers, and justify the solution.	Use partial sums and arrays to solve a two-digit by a one-digit multiplication problem.	SMMA_LO_01716
		Multiply a 1-digit number by a 2-digit number (products 12 x 6 to 19 x 9).	SMMA_LO_00896
		Multiply a two-digit number by a one-digit number (student choice, products 21 x 2 to 99 x 9).	SMMA_LO_00880
		Multiply a 1-digit number by a 2-digit number (products 13 x 1 to 19 x 5).	SMMA_LO_00894
		Solve a multiplication problem in context (one-, two-, and three-digit factors).	SMMA_LO_01604
		Multiply a two-digit number by a one-digit number (student choice, products 16 x 2 to 19 x 5).	SMMA_LO_00872
		Multiply a two-digit number by a one-digit number (products 10 x 2 to 12 x 12).	SMMA_LO_00871
		Multiply a two-digit number by a one-digit number (student choice, products 10 x 2 to 15 x 5).	SMMA_LO_00870
		Multiply a two-digit number by a one-digit number (student choice, vertical, products 10 x 1 to 12 x 4).	SMMA_LO_00869
		Multiply a two-digit number by a one-digit number (student choice, products 10 x 6 to 15 x 9).	SMMA_LO_00874
		Multiply a two-digit number by a one-digit number (student choice, products 16 x 6 to 19 x 9).	SMMA_LO_00876

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		Multiply a one-digit number by a two-digit number (products 2×12 to 9×12).	SMMA_LO_00875
NBT.A.7	Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors, and justify the solution.	Divide using the long division algorithm (one-digit divisor, remainder).	SMMA_LO_00292
NF	Number Sense and Operations in Fractions		
NF.A	Extend understanding of fraction equivalence and ordering. (Limit denominators to 2, 3, 4, 5, 6, 8, 10, 12 and 100.)		
NF.A.1	Explain and/or illustrate why two fractions are equivalent.		
NF.A.2	Recognize and generate equivalent fractions.	Identify two equivalent fractions for $\frac{1}{2}$.	SMMA_LO_01708
		Using models, find equivalent fractions (halves to twelfths).	SMMA_LO_00433
		Determine addition expressions that are equivalent to a given fraction.	SMMA_LO_02146
NF.B	Extend understanding of operations on whole numbers to fraction operations.		
NF.B.3	Solve problems involving adding and subtracting fractions and mixed numbers with like denominators.	Using models, add fractions, no simplifying (like denominators, thirds to eighths).	SMMA_LO_00441
		Add fractions with like denominators (no simplifying).	SMMA_LO_01709
		Use a model and an equation to solve word problems involving the subtraction of fractions with like denominators.	SMMA_LO_02016
		Using models, subtract fractions, no simplifying (like denominators, halves to eighths).	SMMA_LO_00442

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		Use a model and an equation to solve word problems involving the addition of fractions with like denominators.	SMMA_LO_02004
NF.B.4	Apply and extend previous understandings of multiplication to multiply a fraction by a whole number.	Use fraction models to rewrite the product of a whole number and a fraction as the product of a whole number and a unit fraction. Then, find the product.	SMMA_LO_02006
		Use fraction models to relate a fraction to a whole number times a unit fraction. Then, write an equation for this relationship.	SMMA_LO_02005
NF.B.5	Solve problems involving multiplication of a fraction by a whole number.	Solve a multiplication problem in context (one-, two-, and three-digit factors).	SMMA_LO_01604
		Use fraction models to rewrite the product of a whole number and a fraction as the product of a whole number and a unit fraction. Then, find the product.	SMMA_LO_02006
		Identify the method to solve a multiplication problem with extra information.	SMMA_LO_01267
		Use a model and an equation to solve word problems involving the addition of fractions with like denominators.	SMMA_LO_02004
		Use fraction models to relate a fraction to a whole number times a unit fraction. Then, write an equation for this relationship.	SMMA_LO_02005

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NF.C	Understand decimal notation for fractions and compare decimal fractions. (Denominators of 10 or 100)		
NF.C.2	Understand that fractions and decimals are equivalent representations of the same quantity.	Determine the fraction and decimal that represent a model (base-ten blocks, tenths, 0.1 to 0.9).	SMMA_LO_00185
		Match a fraction to a decimal (tenths, 0.1 to 0.9).	SMMA_LO_00184
NF.C.4	Compare two decimals to the hundredths place using the symbols $>$, $=$ or $<$, and justify the solution.	Compare two decimal numbers (10.01 to 99.99).	SMMA_LO_00216
		Compare decimal numbers (0.1 to 9.9).	SMMA_LO_00191
		Compare decimals (to hundredths) to benchmark fractions.	SMMA_LO_00209
RA	Relationships and Algebraic Thinking		
RA.A	Use the four operations with whole numbers to solve problems.		
RA.A.1	Multiply or divide to solve problems involving a multiplicative comparison.	Identify the method to solve a division problem with extra information.	SMMA_LO_01268
		Identify the expression that represents a division problem in context; then solve the problem (dividends 12 to 81).	SMMA_LO_01605
		Use a model to represents a word problem involving multiplicative comparison. Then, use an equation to represent the solution to the word problem.	SMMA_LO_02009
		Solve a multiplication problem in context (one-, two-, and three-digit factors).	SMMA_LO_01604
		Solve a one-step division problem (math facts $2 \div 2$ to $9 \div 9$).	SMMA_LO_01600

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		Identify the method to solve a multiplication problem with extra information.	SMMA_LO_01267
		Solve a division problem in context by rounding the quotient to the next whole number (model shown).	SMMA_LO_01573
		Solve a division problem about money with extra information (round quotient to the nearest whole number).	SMMA_LO_01585
RA.A.2	Solve multi-step whole number problems involving the four operations and variables and using estimation to interpret the reasonableness of the answer.	Make a picture to solve a multistep addition and multiplication problem in context.	SMMA_LO_01592
		Identify the most reasonable answer to a multiplication problem involving money.	SMMA_LO_01278
		Identify the most reasonable answer to a division problem involving money.	SMMA_LO_01279
		Identify the expression that gives the best estimate for an addition or subtraction problem in context (two-digit numbers).	SMMA_LO_01566
		Identify the best estimate for a sum using data in a table (three- and four-digit addends).	SMMA_LO_01620

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RA.A.3	Solve whole number division problems involving variables in which remainders need to be interpreted, and justify the solution.	Identify the method to solve a division problem with extra information.	SMMA_LO_01268
		Identify the expression that represents a division problem in context; then solve the problem (dividends 12 to 81).	SMMA_LO_01605
		Solve a one-step division problem (math facts $2 \div 2$ to $9 \div 9$).	SMMA_LO_01600
		Solve a division problem in context by rounding the quotient to the next whole number (model shown).	SMMA_LO_01573
		Solve a division problem about money with extra information (round quotient to the nearest whole number).	SMMA_LO_01585
RA.B	Work with factors and multiples.		
RA.B.1	Recognize that a whole number is a multiple of each of its factors and find the multiples for a given whole number.	Identify numbers that are multiples of a given number.	SMMA_LO_01069
RA.B.2	Determine if a whole number within 100 is composite or prime, and find all factor pairs for whole numbers within 100.	Identify the complete set of factors for a number (2 to 25).	SMMA_LO_01071
		Identify sets of prime and composite numbers.	SMMA_LO_01119
		Identify the number that is divisible by a given factor (numbers 2 to 81, factors 2 to 9).	SMMA_LO_01066
		Find the factors of a number and determine if the number is prime or composite (3 to 30).	SMMA_LO_01073

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		Determine three factors of a given number.	SMMA_LO_01107
GM	Understand the concepts of angle and measure angles.		
GM.A	Classify 2-dimensional shapes by properties of their lines and angles.		
GM.A.1	Draw and identify points, lines, line segments, rays, angles, perpendicular lines and parallel lines.	Identify parallel and perpendicular streets on a map.	SMMA_LO_00619
		Identify line segments in three- and four-sided figures.	SMMA_LO_00579
		Identify right, acute, and obtuse angles in polygons.	SMMA_LO_00630
		Draw a line segment using a ruler (to 1/4 inch and 0.5 cm).	SMMA_LO_00800
GM.A.2	Classify two-dimensional shapes by their sides and/or angles.	Identify right, acute, and obtuse angles in polygons.	SMMA_LO_00630
GM.A.3	Construct lines of symmetry for a two-dimensional figure.	Draw a vertical or horizontal line of symmetry.	SMMA_LO_00608
		Identify the vertical line of symmetry.	SMMA_LO_00595
		Identify the horizontal line of symmetry.	SMMA_LO_00597
		Identify lines that are lines of symmetry.	SMMA_LO_00623
GM.B	Understand the concepts of angle and measure angles.		
GM.B.2	Draw and measure angles in whole-number degrees using a protractor.	Use a protractor to measure an angle.	SMMA_LO_00631
		Select the appropriate protractor to measure an angle.	SMMA_LO_00644

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GM.C	Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.		
GM.C.1	Know relative sizes of measurement units within one system of units.		
GM.C.1.a	Convert measurements in a larger unit in terms of a smaller unit.	Express yards and feet as an equivalent number of feet, or feet and inches as an equivalent number of inches.	SMMA_LO_00166
GM.C.2	Use the four operations to solve problems involving distances, intervals of time, liquid volume, weight of objects and money.	Estimate the total cost of four items by rounding to the nearest dollar (sums to \$15.00).	SMMA_LO_01591
		Make a picture to find the change received from a purchase (change back from \$1.00).	SMMA_LO_01583
		Estimate the difference by rounding to the nearest dollar (minuends \$5.00 to \$20.00, subtrahends \$3.00 to \$15.00).	SMMA_LO_01669
		Estimate the distance by rounding ($d = rt$).	SMMA_LO_01606
		Identify the most reasonable answer to a multiplication problem involving money.	SMMA_LO_01278
		Identify the most reasonable answer to a division problem involving money.	SMMA_LO_01279
		Solve a division problem about money with extra information (round quotient to the nearest whole number).	SMMA_LO_01585

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GM.C.3	Apply the area and perimeter formulas for rectangles to solve problems.	Find the perimeter of a polygon (decimal numbers, metric units).	SMMA_LO_00805
DS	Data and Statistics		
DS.A	Represent and analyze data.		
DS.A.1	Create a frequency table and/or line plot to display measurement data.	Identify the most frequent value (mode) using a line plot.	SMMA_LO_01164
DS.A.3	Analyze the data in a frequency table, line plot, bar graph or picture graph.	Identify the most frequent value (mode) using a line plot.	SMMA_LO_01164
		Predict the effect of changing temperatures on the weather.	SMMA_LO_01312
		Create a bar graph using data from a chart of values.	SMMA_LO_01696
		Identify all the towns with temperatures below 32 degrees Fahrenheit on a weather map.	SMMA_LO_01311
		Read and interpret a horizontal or vertical pictograph (six items).	SMMA_LO_00150