



# SuccessMaker<sup>®</sup>

**Missouri Mathematics Learning Standards:  
Grade Level Expectations 2016, Grade 5**

## **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 5	SuccessMaker Item Description	Item ID
NS	Number Sense		
NBT	Number Sense and Operations in Base Ten		
NBT.A	Use place value system understanding to perform operations with multi-digit whole numbers to billions and decimals to thousandths.		
NBT.A.1	Read, write and identify numbers from billions to thousandths using number names, base ten numerals and expanded form.	Match a decimal number to a model (thousandths).	SMMA_LO_00242
		Match a decimal number to its word me (to thousandths).	SMMA_LO_00227
		Enter a decimal number in a place-value chart (tenths to thousandths).	SMMA_LO_01089
		Match the word name with the decimal number (0.10 to 9.99).	SMMA_LO_00204
NBT.A.2	Compare two numbers from billions to thousandths using the symbols $>$ , $=$ or $<$ , and justify the solution.	Compare decimal numbers (to thousandths).	SMMA_LO_00225
NBT.A.3	Understand that in a multi-digit number, a digit represents $\frac{1}{10}$ times what it would represent in the place to its left.	Identify the place and the value of a digit in a number; for that value, identify the number 10 times as much and the number $\frac{1}{10}$ as much.	SMMA_LO_02045
NBT.A.6	Add and subtract multi-digit whole numbers and decimals to the thousandths place, and justify the solution.	Add or subtract decimals using mental math (sums less than 1.00, with or without regrouping).	SMMA_LO_00210
		Subtract metric length or weight measurements expressed as decimals (to tenths, difference 1.2 to 8.9, regrouping).	SMMA_LO_00159
		Match a decimal number to its word me (to thousandths).	SMMA_LO_00227

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		Subtract decimals numbers (minuends and subtrahends 0.01 to 9.99).	SMMA_LO_00207
		Align the decimal numbers in a vertical addition problem; then solve (hundredths, regrouping).	SMMA_LO_00211
		Add decimals numbers using mental math (sums 1.0 to 99.8, regrouping).	SMMA_LO_00217
		Add decimals using addition facts (sums 0.02-0.99).	SMMA_LO_00206
NBT.A.7	Multiply multi-digit whole numbers and decimals to the hundredths place, and justify the solution.	Multiply whole numbers (student choice, products 11 x 11 to 15 x 99).	SMMA_LO_00899
		Multiply whole numbers (products 2 x 20 to 90 x 9, multiples of 10).	SMMA_LO_00885
		Multiply two decimals or multiply a decimal by a whole number (tenths to hundredths).	SMMA_LO_00223
		Multiply whole numbers (student choice, products 101 x 2 to 999 x 9).	SMMA_LO_00886
		Multiply a four-digit number by a one-digit number (student choice, products 1000 x 2 to 9999 x 9).	SMMA_LO_00892
		Multiply whole numbers (products 20 x 20 to 90 x 90, multiples of 10).	SMMA_LO_00889
		Multiply decimals displayed horizontally (0.2 x 0.6 to 0.9 x 0.12).	SMMA_LO_00232
		Match the word name with the decimal number (0.10 to 9.99).	SMMA_LO_00204

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NBT.A.8	Divide multi-digit whole numbers and decimals to the hundredths place using up to two-digit divisors and four-digit dividends, and justify the solution.	Divide (combinations 6 x 20 to 9 x 90).	SMMA_LO_00293
		Divide (combinations 2 x 20 to 5 x 90, three-digit dividend, one or two-digit divisor, noremainder).	SMMA_LO_00291
		Divide a decimal by a decimal (horizontal division; dividends to tenths).	SMMA_LO_00237
NF	Number Sense and Operations in Fractions		
NF.A	Understand the relationship between fractions and decimals (denominators that are factors of 100).		
NF.A.3	Compare and order fractions and/or decimals to the thousandths place using the symbols $>$ , $=$ or $<$ , and justify the solution.	Match a decimal number to its word name (to thousandths).	SMMA_LO_00227
		Compare decimal numbers (to thousandths).	SMMA_LO_00225
NF.B	Perform operations and solve problems with fractions and decimals.		
NF.B.1	Estimate results of sums, differences and products with fractions and decimals to the thousandths.	Identify the probable error in a multiplication calculation with decimals.	SMMA_LO_00250
		Estimate the difference of two fractions.	SMMA_LO_01707
NF.B.3	Solve problems involving addition and subtraction of fractions and mixed numbers with unlike denominators, and justify the solution.	Determine the sale price of an item when the price is reduced by one-half, one-third, or one-fourth.	SMMA_LO_01285

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NF.B.4	Extend the concept of multiplication to multiply a fraction or whole number by a fraction.		
NF.B.4.a	Recognize the relationship between multiplying fractions and finding the areas of rectangles with fractional side lengths.	Find the area of a rectangle with fractional side lengths in two ways: by multiplying its side lengths and by tiling it with smaller rectangles.	SMMA_LO_02049
NF.B.4.b	Calculate and interpret the product of a fraction by a whole number and a whole number by a fraction.	Model multiplication of a whole number by a fraction; complete an equation to show the product; interpret a real-world context that can be modeled by this equation.	SMMA_LO_02048
NF.B.4.c	Calculate and interpret the product of two fractions less than one.	Determine whether multiplying a number by a factor results in scaling the number up or down.	SMMA_LO_02051
		Determine whether multiplying a number by a factor results in scaling the number up or down.	SMMA_LO_02050
NF.B.5	Extend the concept of division to divide unit fractions and whole numbers by using visual fraction models and equations.		
NF.B.5.a	Calculate and interpret the quotient of a unit fraction by a non-zero whole number.	Model the division of a unit fraction by a nonzero whole number, and compute the quotient.	SMMA_LO_02052
RA	Relationships and Algebraic Thinking		
RA.A	Represent and analyze patterns and relationships.		
RA.A.2	Write a rule to describe or explain a given numeric pattern.	Generate a table of values given a rule.	SMMA_LO_01724

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RA.C	Use the four operations to represent and solve problems.		
RA.C.1	Solve and justify multi-step problems involving variables, whole numbers, fractions and decimals.	Determine the sale price of an item when the price is reduced by one-half, one-third, or one-fourth.	SMMA_LO_01285
GM	Understand the concepts of angle and measure angles.		
GM.B	Understand and compute volume.		
GM.B.1	Understand the concept of volume and recognize that volume is measured in cubic units.		
GM.B.1.a	Describe a cube with edge length 1 unit as a "unit cube" and is said to have "one cubic unit" of volume and can be used to measure volume.	Identify a unit cube and what attribute it is used to measure.	SMMA_LO_02041
GM.B.2	Apply the formulas $V = l \times w \times h$ and $V = B \times h$ for volume of right rectangular prisms with whole-number edge lengths.	Determine the volume of a box given the height, width, and length (60 to 480 customary or metric cubic units).	SMMA_LO_00174
		Compute the volume of right rectangular prisms using formulas.	SMMA_LO_02043
GM.C	Graph points on the Cartesian coordinate plane within the first quadrant to solve problems.		
GM.C.2	Plot and interpret points in the first quadrant of the Cartesian coordinate plane.	Graph a point on a coordinate grid (Quadrant I).	SMMA_LO_01735

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GM.D	Solve problems involving measurement and conversions within a measurement system.		
GM.D.1	Convert measurements of capacity, length and weight within a given measurement system.	Convert customary units of length (inches, feet, and yards).	SMMA_LO_00791
		Convert between customary units of weight (ounces and pounds).	SMMA_LO_00797
		Convert metric units of length (mm, cm, m, and km; whole numbers).	SMMA_LO_00814
		Convert customary units of capacity (cups, pints, quarts, and gallons).	SMMA_LO_00796
DS	Data and Statistics		
DS.A	Represent and analyze data.		
DS.A.1	Create a line graph to represent a data set, and analyze the data to answer questions and solve problems.	Create a line graph.	SMMA_LO_01771

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