



# SuccessMaker®

## Alignments to SuccessMaker

Providing rigorous intervention  
for K-8 learners with unparalleled precision

Colorado Mathematics Standards Code	Colorado Mathematics Academic Standards, Grade 4	SuccessMaker Item Description	Item ID
1	Number and Quantity		
4.NBT.A	Number & Operations in Base Ten: Generalize place value understanding for multi-digit whole numbers.		
4.NBT.A.2	Read and write multi-digit whole numbers using base-ten numerals, number names, and expanded form. Compare two multi-digit numbers based on meanings of the digits in each place, using $>$ , $=$ , and $<$ symbols to record the results of comparisons.	Compare two whole numbers (three to seven-digit numbers).	SMMA_LO_01711
4.NBT.B	Number & Operations in Base Ten: Use place value understanding and properties of operations to perform multi-digit arithmetic.		
4.NBT.B.5	Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.	Solve a multiplication problem in context (one-, two-, and three-digit factors).	SMMA_LO_01604
4.NBT.B.6	Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.	Divide using the long division algorithm (one-digit divisor, remainder).	SMMA_LO_00292
4.NF.B	Number & Operations-Fractions: Build fractions from unit fractions.		
4.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,	SMMA_LO_02005

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		write an equation for this relationship.	
4.NF.B.4.c	Solve word problems involving multiplication of a fraction by a whole number, e.g., by using visual fraction models and equations to represent the problem.	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
	For example, if each person at a party will eat $\frac{3}{8}$ of a pound of roast beef, and there will be 5 people at the party, how many pounds of roast beef will be needed? Between what two whole numbers does your answer lie?		
4.NF.C	Number & Operations-Fractions: Use decimal notation for fractions, and compare decimal fractions.		
4.NF.C.5	Express a fraction with denominator 10 as an equivalent fraction with denominator 100, and use this technique to add two fractions with respective denominators 10 and 100. (Students who can generate equivalent fractions can develop strategies for adding fractions with unlike denominators in general. But addition and subtraction with unlike denominators in general is not a requirement at this grade.)	Express a fraction with denominator 10 as an equivalent fraction with denominator 100. Then, add that fraction to another fraction with denominator 100.	SMMA_LO_02007
	For example, express $\frac{3}{10}$ as $\frac{30}{100}$ , and add $\frac{3}{10} + \frac{4}{100} = \frac{34}{100}$ .		
	Academic Context and Connections		
MP7	Look for and make use of structure.		
3	Make use of the structure of place value to express and compare decimal numbers in tenths and hundredths.	Compare two decimal numbers (10.01 to 99.99).	SMMA_LO_00216
		Compare decimal numbers (0.1 to 9.9).	SMMA_LO_00191

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		Compare decimals (to hundredths) to benchmark fractions.	SMMA_LO_00209
2	Algebra and Functions		
4.OA.A	Operations & Algebraic Thinking: Use the four operations with whole numbers to solve problems.		
4.OA.A.1	Interpret a multiplication equation as a comparison, e.g., interpret $35 = 5 \times 7$ as a statement that 35 is 5 times as many as 7 and 7 times as many as 5. Represent verbal statements of multiplicative comparisons as multiplication equations.	Interpret a multiplication equation by writing a comparison statement.	SMMA_LO_02025
4.OA.A.2	Multiply or divide to solve word problems involving multiplicative comparison, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem, distinguishing multiplicative comparison from additive comparison.	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
	Academic Context and Connections		
MP4	Model with mathematics.		
3	Use mathematics to model real-world problems requiring operations with whole numbers and contextually interpret remainders when they arise.	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
4.OA.B	Operations & Algebraic Thinking: Gain familiarity with factors and multiples.		
4.OA.B.4	Find all factor pairs for a whole number in the range 1-100. Recognize that a whole number is a multiple of each of its factors. Determine whether a given whole number in the range 1-100 is a multiple of a given one-digit number. Determine whether a given whole number in the range 1-100 is prime or composite.	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	SMMA_LO_01066

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		divisible by a given factor (numbers 2 to 81, factors 2 to 9).	
		Find the factors of a number and determine if the number is prime or composite (3 to 30).	SMMA_LO_01073
		Determine three factors of a given number.	SMMA_LO_01107
	Academic Context and Connections		
MP2	Reason abstractly and quantitatively.		
1	Reason quantitatively to recognize that a number is a multiple of each of its factors.	Identify numbers that are multiples of a given number.	SMMA_LO_01069
MP7	Look for and make use of structure.		
2	Use the relationship between factors and multiples for whole numbers.	Identify numbers that are multiples of a given number.	SMMA_LO_01069
MP8	Look for and express regularity in repeated reasoning.		
3	Look for, identify, and explain the regularities in determining whether a given number is a multiple of a given one-digit number and in determining if a given number is prime or composite.	Identify sets of prime and composite numbers.	SMMA_LO_01119
		Find the factors of a number and determine if the number is prime or composite (3 to 30).	SMMA_LO_01073
3	Data, Statistics, and Probability		
4.MD.A	Measurement & Data: Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.		
4.MD.A.3	Apply the area and perimeter formulas for rectangles in real-world and mathematical problems.	Find the perimeter of a polygon (decimal numbers, metric units).	SMMA_LO_00805
	For example, find the width of a rectangular room given the area of the flooring and the length, by viewing the area formula as a multiplication equation with an unknown factor.		
	Academic Context and Connections		
MP4	Model with mathematics.		

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3	Model real-world problems involving area and perimeter with equations, diagrams, and formulas, and use them to solve problems.	Find the perimeter of a polygon (decimal numbers, metric units).	SMMA_LO_00805
4.MD.C	Measurement & Data: Geometric measurement: Understand concepts of angle and measure angles.		
4.MD.C.6	Measure angles in whole-number degrees using a protractor. Sketch angles of specified measure.	Use a protractor to measure an angle.	SMMA_LO_00631
		Select the appropriate protractor to measure an angle.	SMMA_LO_00644
4	Geometry		
4.G.A	Geometry: Draw and identify lines and angles, and classify shapes by properties of their lines and angles.		
4.G.A.2	Classify two-dimensional figures based on the presence or absence of parallel or perpendicular lines, or the presence or absence of angles of a specified size. Recognize right triangles as a category, and identify right triangles.	Identify right, acute, and obtuse angles in polygons.	SMMA_LO_00630
4.G.A.3	Recognize a line of symmetry for a two-dimensional figure as a line across the figure such that the figure can be folded along the line into matching parts. Identify line-symmetric figures and draw lines of symmetry.	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

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