SuccessMaker®

Massachusetts Curriculum Framework
for Mathematics 2017, Grade 1

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Massachusetts Curriculum Framework for Mathematics 2017 Grade 1	Item Code	SuccessMaker Item Description
(1.OA) Operations and Algebraic Thinking		
(1.OA.A) Represent and solve problems involving addition and subtraction.		
(1.OA.A.1) Use addition and subtraction within 20 to solve word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using objects, drawings, and equations (number sentences) with a symbol for the unknown number to represent the problem.	SMMA_LO_00321	Identify the operation from pictures and contexts up to 20.
	SMMA_LO_01232	Use a picture to solve a missing addend problem (sums 2 to 6).
	SMMA_LO_01239	Choose the expression that can represent a problem with extra information; then solve (addition or subtraction).
	SMMA_LO_01544	Solve an addition problem in context (different objects, sums 2 to 5).
	SMMA_LO_01545	Solve a subtraction problem in context (minuends 2 to 5).
	SMMA_LO_01546	Solve a problem in context by finding a missing addend (sums 2 to 5).
	SMMA_LO_01550	Solve a problem in context by finding a missing addend (sums 2 to 5).
	SMMA_LO_01553	Identify and solve a number sentence for an addition problem in context (sums 2 to 9).
	SMMA_LO_01555	Identify and solve a number sentence for an addition problem in context (sums 2 to 9).
	SMMA_LO_01559	Identify the expression that represents a subtraction problem in context (minuends 2 to 5).
	SMMA_LO_01562	Identify and solve the number sentence for a subtraction problem in context (minuends 2 to 5).

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	SMMA_LO_01568	Identify and solve a number sentence for a subtraction problem in context (minuends 2 to 5).
	SMMA_LO_01244	Identify a picture that represents a subtraction problem (one or two-digit).
	SMMA_LO_01255	Identify the picture that can be used to solve an addition or subtraction problem.
	SMMA_LO_01439	Identify the number sentence that solves a subtraction problem in context (minuends 11 to 18, subtrahends 1 to 9).
(1.OA.A.2) Solve word problems that call for addition of three whole numbers whose sum is less than or equal to 20, e.g., by using objects, drawings, and equations with a symbol for the unknown number to represent the problem.	SMMA_LO_01241	Act out the problem to find the sum (basic facts).
	SMMA_LO_01242	Identify a number sentence that can be used to solve a word problem with extra information (addition or subtraction, basic facts).
	SMMA_LO_01249	Act out a problem to find the sum of three numbers (one-digit addends).
	SMMA_LO_01537	Act out the solution to an addition problem in context (three addends, sums 1 to 9).
	SMMA_LO_01549	Solve an addition problem with three addends in context (sums 3 to 10).
	SMMA_LO_01557	Solve an addition problem with three addends in context (sums 3 to 10).
	SMMA_LO_01576	Solve an addition problem in context (three addends, sums 9 to 18).
	SMMA_LO_00026	Add three addends (sums 2 to 5).
	SMMA_LO_00027	Add three addends (audio presentation, sums 3 to 5).
	SMMA_LO_00028	Add three addends (sums 6 to 10).
	SMMA_LO_00029	Add three addends displayed horizontally (sums 6 to 10).

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	SMMA_LO_00031	Add three addends (one-digit addends, sums 11 to 19).
	SMMA_LO_00032	Add three addends presented horizontally (one-digit addends, sums 10 to 19).
	SMMA_LO_00052	Find the missing addend in a number sentence (three addends, sums 1 to 9).
	SMMA_LO_00066	Find the missing addend in a number sentence (three addends, sums 10 to 19).
(1.OA.B) Understand and apply properties of operations and the relationship between addition and subtraction.		
(1.OA.B.3) Apply properties of operations to add.	SMMA_LO_02021	Apply the Commutative Property of Addition as a strategy to add two numbers; use fact families as a strategy to subtract two numbers.
	SMMA_LO_02022	Use the Associative Property of Addition to add two numbers by regrouping the numbers into a ten and some ones.
	SMMA_LO_02026	Subtract two numbers by regrouping the numbers into a ten and some ones.
	SMMA_LO_02135	Apply the Associative Property of Addition to add three numbers.
(1.OA.B.4) Understand subtraction as an unknown-addend problem.	SMMA_LO_02023	Solve a subtraction problem by finding the missing addend.

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(1.OA.C) Add and subtract within 20.		
(1.OA.C.5) Relate counting to addition and subtraction (e.g., by counting on 2 to add 2).	SMMA_LO_00015	Add 1 to a number (sums 1 to 10).
	SMMA_LO_02010	Relate counting to addition and subtraction.
(1.OA.C.6) Add and subtract within 20, demonstrating fluency for addition and subtraction within 10. Use mental strategies such as counting on; making 10 (e.g., 8 + 6 = 8 + 2 + 4 = 10 + 4 = 14); decomposing a number leading to a 10 (e.g., 13 – 4 = 13 – 3 – 1 = 10 – 1 = 9); using the relationship between addition and subtraction (e.g., knowing that 8 + 4 = 12, one knows 12 – 8 = 4); and creating equivalent but easier or known sums (e.g., adding 6 + 7 by creating the known equivalent 6 + 6 + 1 = 12 + 1 = 13).	SMMA_LO_00012	Add two addends (sums 6 to 10).
	SMMA_LO_00014	Add using basic math facts (addends 0 to 5, sums 1 to 5).
	SMMA_LO_00016	Add two addends in words (one-digit addends, sums 6 to 10).
	SMMA_LO_00017	Add doubles (sums 2 to 18).
	SMMA_LO_00020	Add two consecutive addends (one-digit addends, sums 1 to 17).
	SMMA_LO_00021	Add two consecutive addends displayed horizontally (one-digit addends, sums 1 to 17).
	SMMA_LO_00022	Add vertically using basic math facts (sums 11 to 18).
	SMMA_LO_00023	Add using basic math facts displayed horizontally (sums 10 to 18).
	SMMA_LO_00024	Add two numbers presented in words using basic math facts (sums 1 to 18).
	SMMA_LO_00030	Add four addends (one-digit addends, sums 3 to 10).
	SMMA_LO_00038	Add ten to a number (sums 11 to 19), given in words.

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	SMMA_LO_00039	Add a two-digit number to a one-digit number by counting (sums up to 18), given in words.
	SMMA_LO_00041	Add two addends vertically (sums 10 to 18).
	SMMA_LO_00042	Add using basic math facts displayed horizontally (sums 10 to 18).
	SMMA_LO_00045	Add 9 to a number (sums 10 to 18), given in words.
	SMMA_LO_01240	Use guess and check to solve an addition and subtraction problem (basic facts).
	SMMA_LO_01418	Subtract using basic math facts (minuends 6 to 9).
	SMMA_LO_01419	Subtract using basic math facts (minuends 1 to 9).
	SMMA_LO_01420	Subtract using basic math facts (differences are 0).
	SMMA_LO_01421	Subtract 1 from a number (minuends 1 to 9).
	SMMA_LO_01424	Subtract a number from 10 (subtrahends 1 to 9).
	SMMA_LO_01425	Subtract a number from its double (differences 1 to 9).
	SMMA_LO_01427	Subtract 1 from a number (two-digit minuends, no regrouping, presented vertically).
	SMMA_LO_01429	Subtract using basic math facts displayed horizontally (minuends 10 to 14, subtrahends 1 to 9).
	SMMA_LO_01430	Subtract (student choice, minuends 10 to 15, subtrahends 0 to 5, no regrouping).
	SMMA_LO_01433	Subtract using basic math facts (student choice, minuends 16 to 19, subtrahends 1 to 9).
	SMMA_LO_01434	Subtract using basic math facts (minuends 15 to 18, subtrahends 6 to 9).
	SMMA_LO_01435	Subtract using basic math facts (minuends 11 to 19, subtrahends 1 to 8).

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	SMMA_LO_01436	Subtract using basic math facts (minuends 11 to 18, subtrahends 1 to 9).
	SMMA_LO_01442	Subtract 10 from a number (minuends 11 to 19, horizontal presentation).
	SMMA_LO_01443	Subtract a one-digit number from a two-digit number displayed horizontally (minuends 11 to 19, subtrahends 1 to 9).
	SMMA_LO_01444	Subtract vertically using basic math facts (minuends 15 to 18, subtrahends 6 to 9).
	SMMA_LO_01445	Subtract vertically (minuends 11 to 19, subtrahends 1 to 9, no regrouping).
(1.OA.D) Work with addition and subtraction equations.		
(1.OA.D.7) Understand the meaning of the equal sign, and determine if equations involving addition and subtraction are true or false.	SMMA_LO_02024	Determine if equations involving addition and subtraction are true or false.
(1.OA.D.8) Determine the unknown whole number in an addition or subtraction equation relating three whole numbers.	SMMA_LO_00037	Find the missing addend in a number sentence. (sums 2 to 9)
	SMMA_LO_00048	Find the missing addend in a number sentence (sums 10 to 18).
	SMMA_LO_00322	Complete fact families with four facts (sums 3 to 10).
	SMMA_LO_00323	Solve for c in a + b = c (sums 0 to 9).
	SMMA_LO_00324	Solve for c in a - b = c (differences 1 to 9).
	SMMA_LO_00327	Solve for c in a + b = c (sums 10 to 18).
	SMMA_LO_00329	Solve for c in a - b = c (differences 1 to 9).
	SMMA_LO_00330	Solve for a or b in a + b = c (sums 0 to 9).
	SMMA_LO_00331	Solve for a or b in a - b = c differences 0 to 9).
	SMMA_LO_00332	Solve for a or b in a + b = c (sums 10 to 18).

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	SMMA_LO_00333	Solve for a or b in a - b = c (differences 0 to 18).
	SMMA_LO_01035	Identify a missing number in an addition and subtraction fact family.
	SMMA_LO_01432	Find the missing subtrahend in a subtraction number sentence (minuends 0 to 9).
	SMMA_LO_01440	Find the missing minuend in a subtraction number sentence (minuends 0 to 9).
	SMMA_LO_01446	Find the missing subtrahend in a subtraction number sentence (minuends 10 to 14).
	SMMA_LO_01449	Find the missing subtrahend in a subtraction number sentence (minuends 15 to 18).
	SMMA_LO_01451	Find the missing minuend in a subtraction number sentence (minuends 10 to 14).
	SMMA_LO_01455	Find the missing minuend in a subtraction number sentence (minuends 15 to 18).
	SMMA_LO_01464	Find the missing subtrahend in a subtraction number sentence (minuends 11 to 19).
	SMMA_LO_01468	Find the missing minuend in a subtraction number sentence (minuends 11 to 19).
	SMMA_LO_01656	Solve for the unknown in an addition equation (addends and sums less than 16).
	SMMA_LO_01857	Create a fact family (addition and subtraction).

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(1.NBT) Number and Operations in Base Ten		
(1.NBT.A) Extend the counting sequence.		
(1.NBT.A.1) Count to 120, starting at any number less than 120. In this range, read and write numerals and represent a number of objects with a written numeral.	SMMA_LO_00977	Identify a written number from a spoken number (two-digit).
	SMMA_LO_01001	Enter the number for a word name (two-digit).
(1.NBT.B) Understand place value.		
(1.NBT.B.2) Understand that the two digits of a two-digit number represent amounts of tens and ones. Understand the following as special cases:	SMMA_LO_00976	Find the number of a set of objects (grouped tens and ones; two-digit).
	SMMA_LO_00978	Show a number using base-ten blocks (two-digit).
	SMMA_LO_00979	Enter the number equal to a given number of ones and tens (0 to 9 tens, 1 to 9 ones).
	SMMA_LO_00980	Enter how many tens and ones for a number (two-digit).
	SMMA_LO_00990	Find two numbers when given place value clues (two-digit).
	SMMA_LO_00991	Identify a two-digit number, model, or expression that has a different value.
	SMMA_LO_00995	Identify a number with a given digit in the ones or tens place.
	SMMA_LO_01049	Find two numbers when given place value clues (two-digit).
	SMMA_LO_02160	Decompose two-digit numbers in multiple ways

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(1.NBT.B.2.a) 10 can be thought of as a bundle of ten ones—called a "ten."	SMMA_LO_02017	Given a number (1-9) of objects, determine how many more objects are needed to make a ten.
(1.NBT.B.2.b) The numbers from 11 to 19 are composed of a ten and one, two, three, four, five, six, seven, eight, or nine ones.	SMMA_LO_02018	Model the numbers from 11 to 19 with place value blocks.
(1.NBT.B.2.c) The numbers 10, 20, 30, 40, 50, 60, 70, 80, 90 refer to one, two, three, four, five, six, seven, eight, or nine tens (and 0 ones).	SMMA_LO_00974	Enter the number equal to 1 to 9 tens.
	SMMA_LO_00975	Enter the number of tens for a given multiple of ten (10 to 90).
	SMMA_LO_02019	Model multiples of 10 (from 10 to 90) with place value blocks.
(1.NBT.B.3) Compare two two-digit numbers based on meanings of the tens and ones digits, recording the results of comparisons with the symbols >, =, and <.	SMMA_LO_00328	Compare numbers using < or > symbols (20 to 99).
	SMMA_LO_00997	Identify two numbers that make an inequality true (two-digit).
	SMMA_LO_00998	Find two numbers within a range (two-digit).
	SMMA_LO_00999	Identify the greatest or least number (two-digit).
	SMMA_LO_01554	Identify the value that is greater than one number and less than another in context.
	SMMA_LO_00325	Compare numbers using < or > symbols (1 to 19).
	SMMA_LO_00326	Compare sums (sums 1 to 9).
	SMMA_LO_00337	Compare differences (minuends 1 to 9).
	SMMA_LO_00994	Identify two numbers that make an inequality true (0 to 9).

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(1.NBT.C) Use place value understanding and properties of operations to add and subtract.		
(1.NBT.C.4) Add within 100, including adding a two-digit number and a one-digit number, and adding a two-digit number and a multiple of 10, using concrete models or drawings, and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used. Understand that in adding two-digit numbers, one adds tens and tens, ones and ones; and sometimes it is necessary to compose a ten.	SMMA_LO_00025	Add two multiples of 10 (student choice, sums 20 to 90).
	SMMA_LO_00033	Add two addends (one- and two-digit addends, sums 11 to 99, no regrouping).
	SMMA_LO_00050	Find the missing addend in a number sentence (a multiple of 10 and a one-digit addend, sums 11 to 99, no regrouping).
	SMMA_LO_00054	Add two addends (student choice, a one-digit and a two-digit addend, sums 20 to 98, regrouping).
	SMMA_LO_00984	Find a number that is one less or one more than a given number (two-digit), number line in feedback.
(1.NBT.C.5) Given a two-digit number, mentally find 10 more or 10 less than the number, without having to count; explain the reasoning used. Identify arithmetic patterns of 10 more and 10 less than using strategies based on place value.	SMMA_LO_02020	Mentally find 10 more or 10 less than a given two-digit number; model the solution with place value blocks.

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(1.NBT.C.6) Subtract multiples of 10 in the range 10–90 from multiples of 10 in the range 10–90 (positive or zero differences), using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.	SMMA_LO_01426	Subtract two multiples of 10 (student choice, minuends 20 to 90, subtrahends 10 to 80).
	SMMA_LO_01437	Subtract multiples of 10 (student choice, minuends 20 to 90, subtrahends 10 to 80).
	SMMA_LO_01438	Subtract multiples of 10 (minuends 20 to 90, subtrahends 10 to 80, horizontal presentation).
	SMMA_LO_01441	Subtract 10 from a two-digit number (student choice, minuends 11 to 19).
(1.MD) Measurement and Data		
(1.MD.A) Measure lengths indirectly and by iterating length units.		
(1.MD.A.1) Order three objects by length; compare the lengths of two objects indirectly by using a third object.	SMMA_LO_02147	Order three objects by length.
	SMMA_LO_00687	Match objects of the same height (3 heights).
	SMMA_LO_00688	Match objects of the same length (3 lengths).
	SMMA_LO_00693	Given 3 objects, Identify the shortest or longest object.
(1.MD.A.2) Express the length of an object as a whole number of length units, by laying multiple copies of a shorter object (the length unit) end to end; understand that the length measurement of an object is the number of same-size length units that span it with no gaps or overlaps.	SMMA_LO_00720	Find the total length of two objects (nonstandard units, sums 2 to 5).
	SMMA_LO_00721	Estimate the height and width (2 to 5 nonstandard units).

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	SMMA_LO_00722	Enter the amount of money shown (10 to 19 cents in pennies, nickels, and dimes).
	SMMA_LO_00777	Measure the length of an object (2 to 7 nonstandard units).
	SMMA_LO_02187	Find the length of objects using concrete models for standard units of length.
	SMMA_LO_00701	Identify the group of objects that is 1 to 5 nonstandard units long or tall.
	SMMA_LO_00705	Count to find how long or tall (2 to 9 nonstandard units).
	SMMA_LO_00725	Identify an object given the height and width in nonstandard units.
	SMMA_LO_00732	Find the distance between two objects (2 to 8 nonstandard units).
(1.MD.B) Tell and write time.		
(1.MD.B.3) Tell and write time in hours and half-hours using analog and digital clocks.	SMMA_LO_00714	Tell time to the hour using an analog clock.
	SMMA_LO_00716	Tell time to the hour using digital and analog clocks.
	SMMA_LO_00724	Tell time to the half-hour using an analog clock.
	SMMA_LO_00697	Identify the hour or minute hand of a clock.
(1.MD.C) Represent and interpret data.		
(1.MD.C.4) Organize, represent, and interpret data with up to three categories; ask and answer questions about the total number of data points, how many in each category, and how many more or less are in one category than in another.	SMMA_LO_00131	Read and interpret a horizontal or vertical pictograph (four to six items).
	SMMA_LO_00135	Determine the most or the least from a horizontal or vertical pictograph (four to six items).
	SMMA_LO_00150	Read and interpret a horizontal or vertical pictograph (six items).
	SMMA_LO_01124	Read a pictograph (3 categories, 1 to 9 items per category).

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	SMMA_LO_01132	Create a table from a vertical bar graph.
	SMMA_LO_01141	Within the context of repeated selections without replacement from a bag containing two balls of the same color, label events as certain or impossible.
	SMMA_LO_01299	Read and interpret a pictograph about birds counted (2 to 5 birds in each row).
	SMMA_LO_00952	Match each set of tally marks to a total (1 to 9).
(1.MD.D) Work with money.		
(1.MD.D.5) Identify the values of all U.S. coins and know their comparative values (e.g., a dime is of greater value than a nickel). Find equivalent values (e.g., a nickel is equivalent to five pennies). Use appropriate notation (e.g., 69¢). Use the values of coins in the solutions of problems (up to 100¢).	SMMA_LO_00698	Identify nickels or dimes.
	SMMA_LO_00702	Identify the coin worth 1, 5, 10, or 25 cents.
	SMMA_LO_00738	Find equivalence of nickels and dimes (1 to 5 dimes).
	SMMA_LO_00183	Write the value of a set of dimes in dollar form ($1.10 to $3.90).
	SMMA_LO_00809	Identify the fraction of a dollar a coin is worth (penny to half-dollar).
	SMMA_LO_01629	Find the number of dollar bills needed to buy two to four items (each $1.79 to $3.99 each).
	SMMA_LO_00727	Identify the coin equivalent to 5, 10, or 25 pennies.
	SMMA_LO_00699	Enter the amount of money shown (1 to 5 cents in pennies).
	SMMA_LO_00784	Write the value of a set of coins as a decimal amount ($1.00 to $3.20).
	SMMA_LO_00740	Identify the given amount of money in coins (5 to 50 cents in nickels and dimes).

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	SMMA_LO_00180	Identify the number of dollars and dimes that represent a given amount ($1.10 to $3.50).
	SMMA_LO_00143	Determine the number of cents in 1 to 100 pennies, 1 to 20 nickels, or 1 to 10 dimes.
	SMMA_LO_00715	Enter the amount of money shown (11 to 50 cents in pennies and dimes).
	SMMA_LO_00760	Enter the amount of money shown (10 to 99 cents).
	SMMA_LO_00722	Enter the amount of money shown (10 to 19 cents in pennies, nickels, and dimes).
	SMMA_LO_00704	Enter the amount of money shown (6 to 9 cents in pennies).
(1.G) Geometry		
(1.G.A) Reason with shapes and their attributes.		
(1.G.A.1) Distinguish between defining attributes (e.g., triangles are closed and three-sided) versus non-defining attributes (e.g., color, orientation, overall size); build and draw shapes that possess defining attributes.	SMMA_LO_00580	Identify open and closed figures.
	SMMA_LO_00594	Match compound figures that have the same shape (different sizes).

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(1.G.A.2) Compose two-dimensional shapes (rectangles, squares, trapezoids, triangles, half-circles, and quarter-circles) or three-dimensional shapes (cubes, right rectangular prisms, right circular cones, and right circular cylinders) to create a composite shape, and compose new shapes from the composite shape.	SMMA_LO_00564	Identify puzzle pieces needed to make a given shape, and then complete the puzzle (4 to 6 pieces).
	SMMA_LO_00554	Match a plane figure to a geometric design that uses the figure.
(1.G.A.3) Partition circles and rectangles into two and four equal shares, describe the shares using the words halves, fourths, and quarters, and use the phrases half of, fourth of, and quarter of. Describe the whole as two of, or four of the shares. Understand for these examples that decomposing into more equal shares creates smaller shares.	SMMA_LO_02137	Describe fractions in terms of the number of parts in a whole and the relative size of those parts (e.g., larger, smaller).