



SuccessMaker®

**Colorado Academic Standards
Mathematics 2020
Kindergarten**

**Alignments to SuccessMaker
Providing rigorous intervention
for K-8 learners with unparalleled precision**

Colorado Academic Standards' Codes	Colorado Academic Standards Mathematics 2020 Kindergarten	SuccessMaker Item Descriptions	Item IDs
1	Number and Quantity		
K.CC.A	Counting & Cardinality: Use number names and the count sequence.		
K.CC.A.1	Count to 100 by ones and by tens.	Find a missing number in a sequence, counting by 10's (10 to 100, visual support).	SMMA_LO_00971
		Find a missing number in a sequence, counting by 10's (10 to 100).	SMMA_LO_00981
K.CC.A.2	Count forward beginning from a given number within the known sequence (instead of having to begin at 1).	Enter the missing date on a calendar.	SMMA_LO_00700
		Find the next number in a sequence, counting by 1's (1 to 5).	SMMA_LO_00940
		Find the number that comes before a given number, counting by 1's (1 to 9).	SMMA_LO_00949
		Find a missing number in a sequence, counting by 1's (1 to 20).	SMMA_LO_00951
		Find a missing number in a sequence, counting by 1's (1 to 9).	SMMA_LO_00960
		Find a missing number in a sequence, counting by 1's (10 to 20).	SMMA_LO_00970
		Find a missing number in a sequence, counting by 1's (11 to 50).	SMMA_LO_00982
		Find a missing number in a sequence, counting by 1's (51 to 99).	SMMA_LO_00983
K.CC.A.3	Write numbers from 0 to 20. Represent a number of objects with a written numeral 0-20 (with 0 representing a count of no objects).	Match a digit to a set with that number of objects (1 to 5).	SMMA_LO_00934
		Enter the number shown (1 to 9).	SMMA_LO_00942
		Identify the number of objects for a word name. (1 to 9 objects).	SMMA_LO_00964
		Identify a number, model, or word with the same value (1 to 9).	SMMA_LO_00965
		Enter the number of ones equal to number 1 to 9.	SMMA_LO_00973

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K.CC.B	Counting & Cardinality: Count to determine the number of objects.		
K.CC.B.4	Apply the relationship between numbers and quantities and connect counting to cardinality.		
K.CC.B.4.a	When counting objects, say the number names in the standard order, pairing each object with one and only one number name and each number name with one and only one object.	Count objects by pairing each object with one number 1 to 10; determine how many objects there are.	SMMA_LO_02092
K.CC.B.4.b	Understand that the last number name said tells the number of objects counted. The number of objects is the same regardless of their arrangement or the order in which they were counted.	Find the next number in a sequence, counting by 1's (1 to 5).	SMMA_LO_00939
		Count objects not arranged in a row (6 to 9 objects).	SMMA_LO_00943
K.CC.B.4.c	Understand that each successive number name refers to a quantity that is one larger.	Count objects by pairing each object with one number 1 to 10; determine how many objects there are when 1 more is added.	SMMA_LO_02093
K.CC.B.5	Count to answer "how many?" questions about as many as 20 things arranged in a line, a rectangular array, or a circle, or as many as 10 things in a scattered configuration; given a number from 1-20, count out that many objects.	Count two sets of objects to find the total (sums 2 to 4).	SMMA_LO_00003
		Count objects arranged in a row (1-5 objects).	SMMA_LO_00933
		Count objects not arranged in a row (1 to 5 objects).	SMMA_LO_00935
		Count specific objects within a larger set (1 to 6 objects).	SMMA_LO_00936
		Make a group with one to five objects.	SMMA_LO_00938
		Count objects not arranged in a row (6 to 9 objects).	SMMA_LO_00943
		Make a group with 6 to 9 objects.	SMMA_LO_00945
		Identify the group of objects that represent a number (1 to 5 objects).	SMMA_LO_00956
		Count objects arranged in a row (one to nine objects).	SMMA_LO_00957
		Count specific objects within a larger set (6 to 9 objects).	SMMA_LO_00958

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K.CC.C	Counting & Cardinality: Compare numbers.		
K.CC.C.6	Identify whether the number of objects in one group is greater than, less than, or equal to the number of objects in another group, e.g., by using matching and counting strategies. (Include groups with up to 10 objects.)	Identify a set with the same number of objects as a given set (1 to 5 objects).	SMMA_LO_00922
		Identify a group with more objects than a given group (1 to 5 objects).	SMMA_LO_00923
		Move objects to show a one-to-one correspondence (1 to 5 objects).	SMMA_LO_00925
		Identify a group with fewer objects than a given group (1 to 5 objects).	SMMA_LO_00924
		Make a set with the same number of objects as a given set (1 to 5 objects).	SMMA_LO_00926
		Make a group with one more object than a given group (one to five objects).	SMMA_LO_00927
		Make a group with one fewer object than a given group (1 to 5 objects).	SMMA_LO_00928
		Make a group with the same number of objects as a given group (6 to 9 objects).	SMMA_LO_00929
		Make a group with one more object than a given group (six to nine objects).	SMMA_LO_00930
		Make a group with one fewer object than a given group (6 to 9 objects).	SMMA_LO_00931
		Create a set with the same, more, or fewer number of objects than a given group (1 to 9 objects).	SMMA_LO_00953
		Create a set with one more object than a given set (1 to 9 objects).	SMMA_LO_00954
		Create a set with one fewer object than a given set (1 to 9 objects).	SMMA_LO_00955
		Identify the group with the greatest number of shapes of a given type (1 to 6).	SMMA_LO_00959

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K.CC.C.7	Compare two numbers between 1 and 10 presented as written numerals.	Identify a number that is greater than or less than a spoken number (1 to 9).	SMMA_LO_00946
		Identify the number with the greatest value (1 to 9).	SMMA_LO_00947
		Identify whole numbers on a number line that satisfy the inequality (0 to 10).	SMMA_LO_01023
		Compare sums (sums 1 to 9).	SMMA LO 00326
K.NBT.A	Number & Operations in Base Ten: Work with numbers 11–19 to gain foundations for place value.		
K.NBT.A.1	Compose and decompose numbers from 11 to 19 into ten ones and some further ones, e.g., by using objects or drawings, and record each composition or decomposition by a drawing or equation (such as $18 = 10 + 8$); understand that these numbers are composed of ten ones and one, two, three, four, five, six, seven, eight, or nine ones.	Find a number equal to 2 to 9 ones.	SMMA_LO_00972
		Enter the number of ones equal to number 1 to 9.	SMMA_LO_00973
		Decompose numbers from 11 to 19 into ten ones and some further ones.	SMMA_LO_02094
		Compose numbers from 11 to 19 given ten ones and some further ones by using objects.	SMMA_LO_02095
2	Algebra and Functions		
K.OA.A	Operations & Algebraic Thinking: Model and describe addition as putting together and adding to, and subtraction as taking apart and taking from, using objects or drawings.		
K.OA.A.1	Represent addition and subtraction with objects, fingers, mental images, drawings (drawings need not show details, but should show the mathematics in the problem), sounds (e.g., claps), acting out situations, verbal explanations, expressions, or equations.	Count two sets of objects to find the total (sums 4 to 6).	SMMA_LO_00004
		Count two sets of objects to find the total (sums 2 to 5).	SMMA_LO_00005

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		Count two sets of objects to find the total (sums 6 to 10).	SMMA_LO_00006
		Count objects in two sets and add (sums 1 to 5).	SMMA_LO_00007
		Count the objects in two sets and add (sums 6 to 10).	SMMA_LO_00008
		Add using basic math facts displayed horizontally (sums 6 to 10).	SMMA_LO_00013
		Identify sets of objects that combined have a given sum (sums 6 to 9).	SMMA_LO_00726
		Identify a picture that represents an addition problem (sums 2 to 6).	SMMA_LO_01228
		Write a number sentence for an addition problem (sums 2 to 5).	SMMA_LO_01229
		Write a number sentence for an addition problem (sums 2 to 10).	SMMA_LO_01230
		Identify a picture that represents a subtraction problem (minuends 5 to 10).	SMMA_LO_01235
		Solve a subtraction problem in context (minuends 2 to 5, pictorial models).	SMMA_LO_01412
		Subtract using basic math facts (minuends 2 to 10).	SMMA_LO_01413
		Identify the expression that represents a picture (minuends 2 to 9).	SMMA_LO_01414
		Subtract using basic math facts displayed horizontally (minuends 6 to 9).	SMMA_LO_01417
		Identify the pictorial solution to a subtraction problem (minuends 2 to 9).	SMMA_LO_01422
		Identify the pictorial solution to a problem in context (minuends 4 to 9).	SMMA_LO_01423
		Model and apply joining stories to solve problems (sums 1 to 9).	SMMA_LO_01863
		Addition and Subtraction Targeted Lesson 8: Addition and Subtraction Word Problems with Numbers Between 1 and 20	

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		Addition and Subtraction Targeted Lesson 7: Subtraction Word Problems with Numbers Between 1 and 20	
K.OA.A.2	Solve addition and subtraction word problems, and add and subtract within 10, e.g., by using objects or drawings to represent the problem.	Add zero to a number (sums 1 to 9).	SMMA_LO_00035
		Solve a subtraction problem in context (minuends 2 to 5, pictorial models).	SMMA_LO_01411
		Solve a problem in context by adding or subtracting 1.	SMMA_LO_01535
		Act out the solution to a subtraction problem in context (minuends 1 to 6).	SMMA_LO_01536
		Solve an addition problem in context (same objects, sums 2 to 5).	SMMA_LO_01540
		Model and apply joining stories to solve problems (sums 1 to 9).	SMMA_LO_01863
		Act out the solution to an addition problem in context (three addends, sums 1 to 9).	SMMA_LO_01537
		Identify the picture that can be used to solve an addition or subtraction problem.	SMMA_LO_01255
		Identify the pictorial solution to a problem in context (minuends 4 to 9).	SMMA_LO_01423
		Identify a picture that represents a subtraction problem (one or two-digit).	SMMA_LO_01244
		Identify the picture that represents a subtraction problem in context (minuends 2 to 10).	SMMA_LO_01542
		Identify the operation from pictures and contexts (sums 6 to 9, minuends 6 to 9).	SMMA_LO_00321
		Identify a picture that represents a subtraction problem (minuends 5 to 10).	SMMA_LO_01235
		Write an addition number sentence to represent a picture (sums 1 to 9).	SMMA_LO_00036
		Count objects in two sets and add (sums 1 to 5).	SMMA_LO_00007

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		Solve a subtraction problem in context (minuends 2 to 5, pictorial models).	SMMA_LO_01412
		Identify a picture that represents an addition problem (sums 2 to 6).	SMMA_LO_01228
K.OA.A.3	Decompose numbers less than or equal to 10 into pairs in more than one way, e.g., by using objects or drawings, and record each decomposition by a drawing or equation (e.g., $5 = 2 + 3$ and $5 = 4 + 1$).	Decompose numbers 2-10 into pairs in more than one way by using objects.	SMMA_LO_02096
K.OA.A.4	For any number from 1 to 9, find the number that makes 10 when added to the given number, e.g., by using objects or drawings, and record the answer with a drawing or equation.	Model the number that makes 10 when added to a given number from 1 to 9; then identify the number.	SMMA_LO_02097
		Given a number (1-9) of objects, determine how many more objects are needed to make a ten.	SMMA_LO_02017
K.OA.A.5	Fluently add and subtract within 5.	Add using basic math facts (sums 1 to 5).	SMMA_LO_00010
		Add using basic math facts displayed horizontally (sums 2 to 5).	SMMA_LO_00011
		Subtract using basic math facts displayed horizontally (minuends 0 to 5).	SMMA_LO_01415
		Subtract using basic math facts (minuends 0 to 5).	SMMA_LO_01416
		Add using basic math facts (addends 0 to 5, sums 1 to 5).	SMMA_LO_00014
		Solve an addition problem in context (same objects, sums 2 to 5).	SMMA_LO_01540
		Solve an addition problem in context (different objects, sums 2 to 5).	SMMA_LO_01544

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3	Data, Statistics, and Probability		
K.MD.A	Measurement & Data: Describe and compare measurable attributes.		
K.MD.A.2	Directly compare two objects with a measurable attribute in common, to see which object has "more of"/"less of" the attribute, and describe the difference. For example, directly compare the heights of two children and describe one child as taller/shorter.	Identify the tallest object.	SMMA_LO_00694
		Identify the biggest or smallest object.	SMMA_LO_00695
		Identify the container with the greatest or least capacity.	SMMA_LO_00696
		Identify the object that is a different length.	SMMA_LO_00709
		Identify the object that is a different height.	SMMA_LO_00712
		Identify the objects that are taller or shorter than a nonstandard unit.	SMMA_LO_00743
		Identify the smaller or bigger rectangle.	SMMA_LO_00747
		Identify which familiar object is heavier.	SMMA_LO_00781
K.MD.B	Measurement & Data: Classify objects and count the number of objects in each category.		
K.MD.B.3	Classify objects into given categories; count the numbers of objects in each category and sort the categories by count. (Limit category counts to be less than or equal to 10.)	Identify the figure that is a different color from a given figure.	SMMA_LO_00541
		Identify the figure with a different shape.	SMMA_LO_00547
		Classify geometric figures by a shape attribute.	SMMA_LO_00576
		Identify a pair of objects that are not the same size.	SMMA_LO_00692

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4	Geometry		
K.G.A	Geometry: Identify and describe shapes (squares, circles, triangles, rectangles, hexagons, cubes, cones, cylinders, and spheres).		
K.G.A.1	Describe objects in the environment using names of shapes, and describe the relative positions of these objects using terms such as above, below, beside, in front of, behind, and next to.	Identify the object on the top, in the middle, or on the bottom.	SMMA_LO_00524
		Identify the object on the left or the right.	SMMA_LO_00525
		Identify the picture on the left or right.	SMMA_LO_00526
		Identify the object that is the top, middle or bottom one.	SMMA_LO_00540
		Identify the object that is the top, middle, or bottom one.	SMMA_LO_00543
		Determine whether points are outside, inside, or on a geometric figure.	SMMA_LO_00552
		Identify the object modeled by a geometric figure.	SMMA_LO_00570
		Identify the object that is near or far from another object.	SMMA_LO_00574
		Identify the object behind or in front of another object in a three-dimensional perspective.	SMMA_LO_00584
		Move an object to a specified location. (upper left, upper right, lower left, or lower right corner).	SMMA_LO_00590
K.G.A.2	Correctly name shapes regardless of their orientations or overall size.	Identify circles or squares by name.	SMMA_LO_00529
		Identify triangles or rectangles by name.	SMMA_LO_00530
		Identify a geometric figure (circle, triangle, rectangle, or square).	SMMA_LO_00531
		Identify circles or squares by name.	SMMA_LO_00544
		Identify triangles or rectangles by name.	SMMA_LO_00546
		Identify triangles, squares, rectangles, and pentagons.	SMMA_LO_00550

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		Identify a shape by two positive tests e.g. red, circle.	SMMA_LO_00565
		Match a geometric figure to its name (circle, triangle, square, or rectangle).	SMMA_LO_00568
		Identify the figure that is not of a given type (rectangle or triangle).	SMMA_LO_00571
K.G.A.3	Identify shapes as two-dimensional (lying in a plane, "flat") or three-dimensional ("solid").	Sort two-dimensional and three-dimensional shapes.	SMMA_LO_01677
		Identify geometric solids (cones, cubes, cylinders, pyramids, rectangular prisms, spheres).	SMMA_LO_00622
		Identify a geometric solid (cylinder, pyramid, or rectangular prism).	SMMA_LO_00616
		Identify geometric solids (prisms, pyramids, cones, or spheres).	SMMA_LO_00667
K.G.B	Geometry: Analyze, compare, create, and compose shapes.		
K.G.B.4	Analyze and compare two- and three-dimensional shapes, in different sizes and orientations, using informal language to describe their similarities, differences, parts (e.g., number of sides and vertices/"corners") and other attributes (e.g., having sides of equal length).	Match same size and shape (congruent) irregular polygons.	SMMA_LO_00545
		Identify shapes that are alike.	SMMA_LO_00549
		Identify the figure that has a different number of sides from a given figure.	SMMA_LO_00553
		Identify the figure with a different shape.	SMMA_LO_00547
		Match similar irregular polygons.	SMMA_LO_00555
		Identify matching congruent figures under rotation and/or reflection.	SMMA_LO_00557
		Match similar figures in different orientations.	SMMA_LO_00566
		Identify matching congruent geometric solids.	SMMA_LO_00567
		Match complex congruent figures in different orientations.	SMMA_LO_00581

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		Count the number of sides in a polygon.	SMMA_LO_00586
		Identify figures with more or fewer than a given number of sides.	SMMA_LO_00587
		Identify comers (vertices) of polygons.	SMMA_LO_00589
		Identify similar three-dimensional figures.	SMMA_LO_00592
		Count the corners (vertices) of a polygon (3 to 7 corners).	SMMA_LO_00596
		Identify the smaller or bigger rectangle.	SMMA_LO_00747
K.G.B.6	Compose simple shapes to form larger shapes.	Compose simple shapes to form larger shapes.	SMMA_LO_02181