Kindergarten and Grade 1 Alabama New Math Standards are virtual duplicates of Common Core State Standards as seen in yellow highlights.

A Side-by-Side Comparison of the Kindergarten Standards in the

2019 Alabama Course of Study: Mathematics and the Common Core State Standards for Mathematics

	2019 Alabama Course of Study: Mathematics		Common Core State Standards for Mathematics
1	Count forward orally from 0 to 100 by ones and by tens. Count backward orally from 10 to 0 by ones.	K.CC.1	Count to 100 by ones and by tens.
2	Count to 100 by ones beginning with any given number between 0 and 99.	K.CC.2	Count forward beginning from a given number within the known sequence (instead of having to begin at 1).
3	 Write numerals from 0 to 20. a. Represent 0 to 20 using concrete objects when given a written numeral from 0 to 20 (with 0 representing a count of no objects). 	K.CC.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).
4	 4. Connect counting to cardinality using a variety of concrete objects. a. Say the number names in consecutive order when counting objects. b. Indicate that the last number name said tells the number of objects counted in a set. c. Indicate that the number of objects in a set is the same regardless of their arrangement or the order in which they were counted. d. Explain at each successive number name refers to a quantity that is one larger. 	K.CC.4	Understand the relationship between numbers and quantities; connect counting to cardinality. 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. 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. c. Understand that each successive number name refers to a quantity that is one larger.
5	 Count to answer "how many?" questions. a. Count using no more than 20 concrete objects arranged in a line, a rectangular array, or a circle. b. Count using no more than 10 concrete objects in a scattered configuration. c. Draw the number of objects that matches a given numeral from 0 to 20. 	K.CC.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.
6	Orally identify whether the number of objects in one group is greater/more than, less/fewer than, or equal/the same as the number of objects in another group, in groups containing up to 10 objects, by using matching, counting, and other strategies.	K.CC.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.
7	Compare two numbers between 0 and 10 presented as written numerals (without using inequality symbols).	K.CC.7	Compare two numbers between 1 and 10 presented as written numerals.
8	(Represent addition and subtraction up to 10 with concrete objects, (fingers, pennies, mental images, drawings, claps or other sounds, (acting out situations, verbal explanations, expressions, or equations.)	K.OA .1	Represent addition and subtraction with objects, fingers, mental images, drawings, sounds (e.g., claps), acting out situations, verbal explanations, expressions, or equations.

9	Solve addition and subtraction word problems, and add and subtract	K.OA .2	Solve addition and subtraction word problems, and add and subtract
	within 10, by using concrete objects or drawings to represent the		within 10, e.g., by using objects or drawings to represent the
	problem.		problem.
10	Decompose numbers less than or equal to 10 into pairs of smaller	K.OA .3	Decompose numbers less than or equal to 10 into pairs in more
	numbers in more than one way, by using concrete objects or		than one way, e.g., by using objects or drawings, and record each
	drawings, and record each decomposition by a drawing or equation.		decomposition by a drawing or equation (e.g., $5 = 2 + 3$ and $5 = 4 + 3$
	Example: $5 = 2 + 3$ and $5 = 4 + 1$		1).
11	For any number from 0 to 10, find the number that makes 10 when	K.OA .4	For any number from 1 to 9, find the number that makes 10 when
	added to the given number, by using concrete objects or drawings,		added to the given number, e.g., by using objects or drawings, and
	and record the answer with a drawing or equation.		record the answer with a drawing or equation.
12	Fluently add and subtract within 5.	K.OA .5	Fluently add and subtract within 5.
13	Duplicate and extend simple patterns using concrete objects.		
14	Compose and decompose numbers from 11 to 19 by using concrete	K.NBT	Compose and decompose numbers from 11 to 19 into ten ones and
	objects or drawings to demonstrate understanding that these	.1	some further ones, e.g., by using objects or drawings, and record
	numbers are composed of ten ones and one, two, three, four, five,		each composition or decomposition by a drawing or equation (e.g.,
	six, seven, eight, or nine ones.		18 = 10 + 8); understand that these numbers are composed of ten
			ones and one, two, three, four, five, six, seven, eight, or nine ones.
15	Classify objects into given categories of 10 or fewer; count the	K.MD.3	Classify objects into given categories; count the numbers of objects
	number of objects in each category and sort the categories by count.		in each category and sort the categories by count.
16	Identify and describe measurable attributes (length, weight, height) of	K.MD.1	Describe measurable attributes of objects, such as length or weight.
	a single object using vocabulary such as long/short, heavy/light, or		Describe several measurable attributes of a single object.
	tall/short.		
17	Directly compare two objects with a measurable attribute in common	K.MD.2	Directly compare two objects with a measurable attribute in common,
	to see which object has "more of " or "less of" the attribute and		to see which object has "more of"/ "less of" the attribute, and
	describe the difference. Example: Directly compare the heights of		describe the difference. For example, directly compare the heights of
	two children and describe one child as "taller " or "shorter. "		two children and describe one child as taller/shorter.
18	Describe objects in the environment using names of shapes, and	K.G.1	Describe objects in the environment using names of shapes, and
	describe the relative positions of these objects using terms such as		describe the relative positions of these objects using terms such as
	above, be/ow, beside, in front of, behind, and next to.		above, below, beside, in front of, behind, and next to.
19	Correctly name shapes regardless of their orientations or overall	K.G.2	Correctly name shapes regardless of their orientations or overall
	SIZES.		Size.
20	(Identify shapes as two-dimensional (lying in a plane, "flat") or three-	K.G.3	Identify shapes as two-dimensional (lying in a plane, "flat") or three-
04	dimensional (solid).	KOA	dimensional (solid).
21	Analyze and compare two- and three-dimensional shapes, in different	K.G.4	Analyze and compare two- and three-dimensional shapes, in
	sizes and onemations, using information of eidee and vertices or		different sizes and orientations, using informationguage to describe
	(similarities, differences, parts (number of sides and vertices of		unell similanties, differences, parts (e.g., humber of sides and
	Comers), and other attributes. Example: naving sides of equal		venuces/ corners) and other autibutes (e.g., having sides of equal
22	Medal abapted in the world by building them from sticks, clay hollo, or	KCE	Medal abance in the world by building abance from comparante
22	other components and by drawing them	N.G.3	(or a sticks and clay halls) and drawing shapes from components
22	Uner components and by drawing them,	KGG	Compare simple shapes to form larger shapes.
23	Example: Join two triangles with full sides touching to make a	N.G.0	volution these two triangles with full sides touching to make a
	rectangle		you join mese two manyles with full sides touching to make a
	liootangio,		rootangio.

A Side-by-Side Comparison of the First Grade Standards

in the

2019 Alabama Course of Study: Mathematics and the Common Core State Standards for Mathematics

	2019 Alabama Course of Study: Mathematics		Common Core State Standards for Mathematics
1	Use addition and subtraction to solve word problems within 20 by	1.OA.1	Use addition and subtraction within 20 to solve word problems
	using concrete objects, drawings, and equations with a symbol for the		involving situations of adding to, taking from, putting together, taking
	unknown number to represent the problem.		apart, and comparing, with unknowns in all positions, e.g., by using
	a. Add to with change unknown to solve word problems within 20.		objects, drawings, and equations with a symbol for the unknown
	b. Take from with change unknown to solve word problems within 20.		number to represent the problem.
	problems within 20		
	d. Compare quantities, with difference unknown, bigger unknown.		
	and smaller unknown while solving word problems within 20.		
2	Solve word problems that call for addition of three whole numbers	1.OA.2	Solve word problems that call for addition of three whole numbers
	whose sum is less than or equal to 20 by using concrete objects,		whose sum is less than or equal to 20, e.g., by using objects,
	drawings, or equations with a symbol for the unknown number to		drawings, and equations with a symbol for the unknown number to
	represent the problem.		represent the problem.
3	Apply properties of operations as strategies to add and subtract.	1.OA.3	Apply properties of operations as strategies to add and subtract.
	Examples: If $8 + 3 = 11$ is known, then $3 + 8 = 11$ is also known		Examples: If $8 + 3 = 11$ is known, then $3 + 8 = 11$ is also known.
	(commutative property of addition). To add $2 + 6 + 4$, the second and		(Commutative property of addition.) To add $2 + 6 + 4$, the second two
	third numbers can be added to make a ten, so $2 + 6 + 4 = 2 + 10 =$		numbers can be added to make a ten, so $2 + 6 + 4 = 2 + 10 = 12$.
	(12 (associative property of addition). When adding 0 to a number, the		(Associative property of addition.)
4	Explain subtraction as an unknown addard problem.	1 0 4 1	Understand subtraction as an unknown addend problem. For
4	Explain Subtracting 10 - 8 by finding the number that makes 10	1.0A.4	$\frac{1}{2}$
	when added to 8		added to 8
5	Relate counting to addition and subtraction Example: counting on 2 to	1.OA.5	Relate counting to addition and subtraction (e.g., by counting on 2 to
-	add 2		add 2).
6	Add and subtract within 20.	1.OA.6	Add and subtract within 20, demonstrating fluency for addition and
	a. Demonstrate fluency with addition and subtraction facts with sums		subtraction within 10. Use strategies such as counting on; making
	or differences to 10 by counting on.		leading to a ten (e.g. $13 - 4 - 13 - 3 - 1 - 10 - 1 - 9$); using the
	b. Demonstrate fluency with addition and subtraction facts with sums		(relationship between addition and subtraction (e.g., knowing that 8)+
	or differences to 10 by making ten.		4 = 12, one knows $12 - 8 = 4$); and creating equivalent but easier or
	c. Demonstrate fluency with addition and subtraction facts with sums		known sums (e.g., adding 6 + 7 by creating the known equivalent 6 +
	or differences to 10 by decomposing a number leading to a ten.		(6 + 1 = 12 + 1 = 13).
	Example: $13 - 4 = 13 - 3 - 1 = 10 - 1 = 9$		
	d. Demonstrate fluency with addition and subtraction facts with sums		
	or differences to 10 by using the relationship between addition and		
	subtraction. Example: Knowing that $8 + 4 = 12$, one knows $12 - 8 = 4$		

	e. Demonstrate fluency with addition and subtraction facts with sums or differences to 10 by creating equivalent but easier or known sums. Example: adding $6 + 7$ by creating the known equivalent $6 + 6 + 1 =$ 12 + 1 = 13		
7	Explain that the equal sign means "the same as." Determine whether equations involving addition and subtraction are true or false. Example: determining which of the following equations are true and which are false: $6 = 6$, $7 = 8 - 1$, $5 + 2 = 2 + 5$, $4 + 1 = 5 + 2$	1.OA.7	Understand the meaning of the equal sign, and determine if equations involving addition and subtraction are true or false. For example, which of the following equations are true and which are false? $6 = 6$, $7 = 8 - 1$, $5 + 2 = 2 + 5$, $4 + 1 = 5 + 2$.
8	Solve for the unknown whole number in various positions in an addition or subtraction equation, relating three whole numbers that would make it true. Example: determining the unknown number that makes the equation true in each of the equations $8 + ? = 11, 5 = ? - 3, 6 + 6 = ?$.	1.OA.8	Determine the unknown whole number in an addition or subtraction equation relating three whole numbers. For example, determine the unknown number that makes the equation true in each of the equations $8 + ? = 11$, $5 = \textcircled{0} - 3$, $6 + 6 = \textcircled{0}$.
9	Reproduce, extend, and create patterns and sequences of numbers using a variety of materials.		
10	 Extend the number sequence from 0 to 120. a. Count forward and backward by ones, starting at any number less than 120. b. Read numerals from 0 to 120. c. Write numerals from 0 to 120. d. Represent a number of objects from 0 to 120 with a written numeral. 	1.NBT.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.
11	 Explain that the two digits of a two-digit number represent amounts of tens and ones. a. Identify a bundle of ten ones as a "ten." b. Identify the numbers from 11 to 19 as composed of a ten and one, two, three, four, five, six, seven, eight, or nine ones. c. Identify the numbers 10, 20, 30, 40, 50, 60, 70, 80, 90 as one, two, three, four, five, six, seven, eight, or nine tens (and 0 ones). 	1.NBT.2	Understand that the two digits of a two-digit number represent amounts of tens and ones. Understand the following as special cases: a. 10 can be thought of as a bundle of ten ones — called a "ten." b. The numbers from 11 to 19 are composed of a ten and one, two, three, four, five, six, seven, eight, or nine ones. 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).
12	Compare pairs of two-digit numbers based on the values of the tens and ones digits, recording the results of comparisons with the symbols >, =, and < and orally with the words "is greater than," "is equal to," and "is less than."	1.NBT.3	Compare two two-digit numbers based on meanings of the tens and ones digits, recording the results of comparisons with the symbols >, =, and <.
13	 Add within 100, using concrete models or drawings and strategies based on place value. a. Add a two-digit number and a one-digit number. b. Add a two-digit number and a multiple of 10. c. Demonstrate that in adding two-digit numbers, tens are added to tens, ones are added to ones, and sometimes it is necessary to compose a ten. 	1.NBT.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.

	d. Relate the strategy for adding a two-digit number and a one-digit		
1/	Given a two-digit number, mentally find 10 more or 10 less than the	1 NRT 5	Given a two-digit number, mentally find 10 more or 10 less than the
14	number without baying to count, and explain the reasoning used	1.101.5	number, without baying to count: explain the reasoning used
15	Subtract multiples of 10 from multiples of 10 in the range 10-90	1.NBT.6	Subtract multiples of 10 in the range 10-90 from multiples of 10 in the
	(positive or zero differences), using concrete models or drawings and		range 10-90 (positive or zero differences), using concrete models or
	strategies based on place value, properties of operations, and/or the		drawings and strategies based on place value, properties of
	relationship between addition and subtraction. Relate the strategy to		operations, and/or the relationship between addition and subtraction;
	a written method and explain the reasoning used.		relate the strategy to a written method and explain the reasoning
			used.
16	Organize, represent, and interpret data with up to three categories.	1.MD.4	Organize, represent, and interpret data with up to three categories;
	a. Ask and answer questions about the total number of data points in		ask and answer questions about the total number of data points, how
	organized data.		many in each category, and now many more or less are in one
	b. Determine "how many" in each category using up to three		
	categories of data.		
	c. Determine "how many more" or "how many less" are in one		
	category than in another using data organized		
17	Order three objects by length; compare the lengths of two objects	1.MD.1	Order three objects by length; compare the lengths of two objects
	indirectly by using a third object.		indirectly by using a third object.
18	Determine the length of an object using non-standard units with no	1.MD.2	Express the length of an object as a whole number of length units, by
	gaps or overlaps, expressing the length of the object with a whole		aying multiple copies of a shorter object (the length unit) end to end;
			of same size length units that span it with ps gaps or everlaps. Limit
			to contexts where the object being measured is spanned by a whole
			number of length units with no gaps or overlaps.
19	Tell and write time to the hours and half hours using analog and	1.MD.3	Tell and write time in hours and half-hours using analog and digital
	digital clocks.		clocks.
20	Identify pennies and dimes by name and value.		
21	Build and draw shapes which have defining attributes.	1.G.1	Distinguish between defining attributes (e.g., triangles are closed and
	a. Distinguish between defining attributes and non-defining attributes.		(three-sided) versus non-defining attributes (e.g., color, orientation,
	Examples: Triangles are closed and three-sided, which are defining		overall size); build and draw shapes to possess defining attributes.
	attributes; color, orientation, and overall size are non-defining		
22	Compose two dimensional chapes (rectangles, squares, transzaids)	162	Compose two dimensional shapes (restangles, squares, transzoide)
22	triangles, half-circles, and quarter-circles) or three-dimensional	1.0.2	triangles half-circles and quarter-circles) or three-dimensional
	shapes (cubes, right rectangular prisms, right circular cones, and		shapes (cubes, right rectangular prisms, right circular cones, and
	(right circular cylinders) to create a composite shape, and compose		right circular cylinders) to create a composite shape, and compose
	new shapes from the composite shape.		new shapes from the composite shape.
23	Partition circles and rectangles into two and four equal shares and	1.G.3	Partition circles and rectangles into two and four equal shares,
	describe the shares using the words halves,		describe the shares using the words halves, fourths, and quarters,
	fourths, and quarters, and use the phrases half of, fourth of, and		whole as two of or four of the shares. Understand for these
	quarter of.		

a. Describe "the whole" as two of or four of the shares of circles and	 examples that decomposing into more equal shares creates smaller
rectangles partitioned into two or four equal shares.	 shares.
b. Explain that decomposing into more equal shares creates smaller	
shares of circles and rectangles.	