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to the

California Common Core State Standards for Mathematics



Kindergarten

California Common Core State Standards for Mathematics Kindergarten		i-Ready Classroom Mathematics Lessons Kindergarten
Kindergarten		
K.CC	Counting and Cardinality	
	Know number names and the count sequence.	
K.CC.1	Count to 100 by ones and by tens.	Lesson 17: Count Within 100 Supporting Content: Lesson 4: Count, Show, and Write Numbers to 5; Lesson 11: Count, Show, and Write Numbers 6 to 10; Lesson 16: Count, Read, and Write Numbers 11 to 20
K.CC.2	Count forward beginning from a given number within the known sequence (instead of having to begin at 1).	Lesson 17: Count Within 100 Supporting Content: Lesson 4: Count, Show, and Write Numbers to 5; Lesson 11: Count, Show, and Write Numbers 6 to 10; Lesson 16: Count, Read, and Write Numbers 11 to 20
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).	Lesson 4: Count, Show, and Write Numbers to 5 Lesson 11: Count, Show, and Write Numbers 6 to 10 Lesson 16: Count, Read, and Write Numbers 11 to 20 Supporting Content: Lesson 5: Compare Numbers to 5; Lesson 7: Add Within 5; Lesson 9: Subtract Within 5; Lesson 10: Add and Subtract Within 5; Lesson 12: Compare Numbers to 10; Lesson 14: Compose and Decompose 10; Lesson 18: Compose and Decompose 6 and 7; Lesson 19: Compose and Decompose 8 and 9; Lesson 20: Add Within 10; Lesson 21: Subtract Within 10; Lesson 22: Add and Subtract to Solve Word Problems; Lesson 23: Compose and Decompose Teen Numbers with Tools and Drawings; Lesson 25: Compose and Decompose Teen Numbers with Symbols Math in Action: pp. 133–136, 333–336, 423–426, 563–566

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	Count to tell the number of objects.	
K.CC.4	Understand the relationship between numbers and quantities; connect counting to cardinality.	
K.CC.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.	Lesson 4: Count, Show, and Write Numbers to 5 Lesson 11: Count, Show, and Write Numbers 6 to 10 Lesson 16: Count, Read, and Write Numbers 11 to 20 <u>Supporting Content:</u> Lesson 3: Sort and Count Objects; Lesson 5: Compare Numbers to 5; Lesson 12: Compare Numbers to 10; Lesson 17: Count Within 100 Math in Action: pp. 133–136, 423–426
K.CC.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.	Lesson 4: Count, Show, and Write Numbers to 5 Lesson 11: Count, Show, and Write Numbers 6 to 10 Lesson 16: Count, Read, and Write Numbers 11 to 20 <u>Supporting Content:</u> Lesson 3: Sort and Count Objects; Lesson 5: Compare Numbers to 5; Lesson 12: Compare Numbers to 10; Lesson 17: Count Within 100 Math in Action: pp. 133–136, 423–426
K.CC.4.c	Understand that each successive number name refers to a quantity that is one larger.	Lesson 5: Compare Numbers to 5 Lesson 12: Compare Numbers to 10 <u>Supporting Content:</u> Lesson 4: Count, Show, and Write Numbers to 5; Lesson 11: Count, Show, and Write Numbers 6 to 10; Lesson 16: Count, Read, and Write Numbers 11 to 20; Lesson 17: Count Within 100

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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.	<p>Lesson 3: Sort and Count Objects Lesson 4: Count, Show, and Write Numbers to 5 Lesson 11: Count, Show, and Write Numbers 6 to 10 Lesson 16: Count, Read, and Write Numbers 11 to 20</p> <p>Supporting Content: Lesson 5: Compare Numbers to 5; Lesson 7: Add Within 5; Lesson 9: Subtract Within 5; Lesson 10: Add and Subtract Within 5; Lesson 12: Compare Numbers to 10; Lesson 14: Compose and Decompose 10; Lesson 17: Count Within 100; Lesson 18: Compose and Decompose 6 and 7; Lesson 19: Compose and Decompose 8 and 9; Lesson 20: Add Within 10; Lesson 21: Subtract Within 10; Lesson 22: Add and Subtract to Solve Word Problems; Lesson 23: Compose and Decompose Teen Numbers with Tools and Drawings; Lesson 25: Compose and Decompose Teen Numbers with Symbols Math in Action: pp. 133–136, 333–336, 423–426, 563–566</p>
Compare numbers.		
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.	<p>Lesson 5: Compare Numbers to 5 Lesson 12: Compare Numbers to 10</p> <p>Supporting Content: Lesson 3: Sort and Count Objects Math in Action: pp. 133–136</p>
K.CC.7	Compare two numbers between 1 and 10 presented as written numerals.	<p>Lesson 5: Compare Numbers to 5 Lesson 12: Compare Numbers to 10</p>

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K.OA	Operations and Algebraic Thinking	
	Understand addition as putting together and adding to, and understand subtraction as taking apart and taking from.	
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.	Lesson 7: Add Within 5 Lesson 9: Subtract Within 5 Lesson 10: Add and Subtract Within 5 Lesson 20: Add Within 10 Lesson 21: Subtract Within 10 <u>Supporting Content:</u> Lesson 14: Compose and Decompose 10; Lesson 18: Compose and Decompose 6 and 7; Lesson 19: Compose and Decompose 8 and 9; Lesson 22: Add and Subtract to Solve Word Problems Math in Action: pp. 223–226, 493–496
K.OA.2	Solve addition and subtraction word problems, and add and subtract within 10, e.g., by using objects or drawings to represent the problem.	Lesson 7: Add Within 5 Lesson 9: Subtract Within 5 Lesson 10: Add and Subtract Within 5 Lesson 20: Add Within 10 Lesson 21: Subtract Within 10 Lesson 22: Add and Subtract to Solve Word Problems <u>Supporting Content:</u> Lesson 14: Compose and Decompose 10; Lesson 15: Find Number Partners for 10; Lesson 18: Compose and Decompose 6 and 7; Lesson 19: Compose and Decompose 8 and 9 Math in Action: pp. 223–226, 493–496
K.OA.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 $5 = 4 + 1$).	Lesson 14: Compose and Decompose 10 Lesson 18: Compose and Decompose 6 and 7 Lesson 19: Compose and Decompose 8 and 9 <u>Supporting Content:</u> Lesson 15: Find Number Partners for 10; Lesson 22: Add and Subtract to Solve Word Problems Math in Action: pp. 223–226, 423–426, 493–496

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K.OA.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.	Lesson 15: Find Number Partners for 10 Supporting Content: Lesson 14: Compose and Decompose 10 Math in Action: pp. 223–226
K.OA.5	Fluently add and subtract within 5.	Lesson 7: Add Within 5 Lesson 9: Subtract Within 5 Lesson 10: Add and Subtract Within 5 Lesson 20: Add Within 10 Lesson 21: Subtract Within 10
K.NBT	Number and Operations in Base Ten	
	Work with numbers 11–19 to gain foundations for place value.	
K.NBT.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 (e.g., $18 = 10 + 8$); understand that these numbers are composed of ten ones and one, two, three, four, five, six, seven, eight, or nine ones.	Lesson 23: Compose and Decompose Teen Numbers with Tools and Drawings Lesson 25: Compose and Decompose Teen Numbers with Symbols Supporting Content: Lesson 14: Compose and Decompose 10 Math in Action: pp. 565–566
K.MD	Measurement and Data	
	Describe and compare measurable attributes.	
K.MD.1	Describe measurable attributes of objects, such as length or weight. Describe several measurable attributes of a single object.	Lesson 2: Describe and Compare Length and Height Lesson 6: Three-Dimensional Shapes and Weight Supporting Content: Lesson 3: Sort and Count Objects
K.MD.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. <i>For example, directly compare the heights of two children and describe one child as taller/shorter.</i>	Lesson 2: Describe and Compare Length and Height Lesson 6: Three-Dimensional Shapes and Weight

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	Classify objects and count the number of objects in each category.	
K.MD.3	Classify objects into given categories; count the numbers of objects in each category and sort the categories by count.	Lesson 3: Sort and Count Objects Supporting Content: Lesson 2: Describe and Compare Length and Height; Lesson 4: Count, Show, and Write Numbers to 5; Lesson 6: Three-Dimensional Shapes and Weight; Lesson 8: Two-Dimensional Shapes Math in Action: pp. 63–66, 133–136
K.G	Geometry	
	Identify and describe shapes (squares, circles, triangles, rectangles, hexagons, cubes, cones, cylinders, and spheres).	
K.G.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.	Lesson 1: Describe Position Lesson 6: Three-Dimensional Shapes and Weight Lesson 8: Two-Dimensional Shapes Supporting Content: Lesson 13: Compose Shapes Math in Action: pp. 63–66
K.G.2	Correctly name shapes regardless of their orientations or overall size.	Lesson 6: Three-Dimensional Shapes and Weight Lesson 8: Two-Dimensional Shapes Supporting Content: Lesson 13: Compose Shapes; Lesson 24: Build with Shapes Math in Action: pp. 223–226, 563–566
K.G.3	Identify shapes as two-dimensional (lying in a plane, “flat”) or three-dimensional (“solid”).	Lesson 24: Build with Shapes Supporting Content: Lesson 6: Three-Dimensional Shapes and Weight; Lesson 8: Two-Dimensional Shapes

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	Analyze, compare, create, and compose shapes.	
K.G.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).	Lesson 6: Three-Dimensional Shapes and Weight Lesson 8: Two-Dimensional Shapes <u>Supporting Content:</u> Lesson 13: Compose Shapes; Lesson 24: Build with Shapes Math in Action: pp. 223–226
K.G.5	Model shapes in the world by building shapes from components (e.g., sticks and clay balls) and drawing shapes.	Lesson 13: Compose Shapes Lesson 24: Build with Shapes <u>Supporting Content:</u> Lesson 6: Three-Dimensional Shapes and Weight; Lesson 8: Two-Dimensional Shapes Math in Action: pp. 563–566
K.G.6	Compose simple shapes to form larger shapes. <i>For example, “Can you join these two triangles with full sides touching to make a rectangle?”</i>	Lesson 13: Compose Shapes <u>Supporting Content:</u> Lesson 6: Three-Dimensional Shapes and Weight; Lesson 8: Two-Dimensional Shapes; Lesson 24: Build with Shapes Math in Action: pp. 333–336, 563–566

Note: i-Ready Classroom Mathematics addresses number sense skills every day with dedicated number sense activities and fun counting and cardinality practice. Number Sense activities provide daily opportunities for children to talk about numbers and relationships, develop understanding of numbers, and use numbers and operations flexibly. Counting Routines provide children with engaging opportunities to practice rote counting daily.