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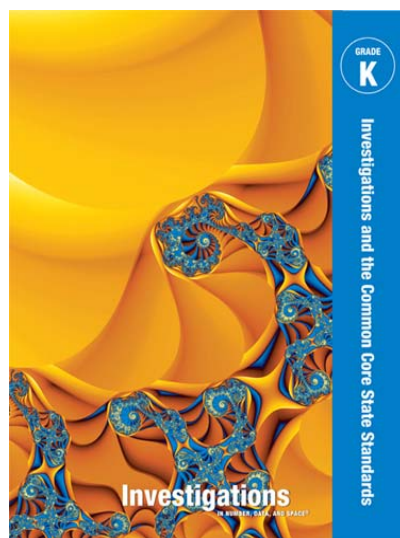
SCOTT FORESMAN

Investigations

IN NUMBER, DATA, AND SPACE®

for the Common Core State Standards

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to the

Common Core State Standards for Mathematics

Kindergarten

***Investigations In Number, Data, and Space for the Common Core State Standards* © 2012**

Correlated to the Common Core State Standards for Mathematics

Resource Title: ***Investigations in Number, Data, and Space for the Common Core State Standards***

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Counting and Cardinality K.CC	
Know number names and the count sequence.	
<p>K.CC.1 Count to 100 by ones and by tens.</p>	<p>U1 Sessions: TE: 24-31, 32-35, 36-40, 41-43, 44-46, 47-52, 58-63, 64-69, 70-75, 76-81, 82-88, 94-99, 100-105, 106-109, 110-114, 115-119, 120-123, 124-126</p> <p>U2 Sessions: TE: 26-32, 33-38, 39-42, 43-46, 47-50, 51-54, 55-60, 61-64, 65-70, 71-73, 82-87, 88-90, 91-93, 94-99, 100-104, 105-109, 110-116, 117-120, 128-132, 142-144</p> <p>U3 Sessions: TE: 26-28, 35-39, 40-44, 58-64, 65-69, 80-84, 99-102, 119-123, 124-128, 129-133</p> <p>U4 Sessions: TE: 28-32, 33-37, 48-52, 58-64, 65-70, 71-75, 76-79, 80-84, 90-94, 95-99, 100-103, 104-108, 117-120, 134-137, 153-156, 162-164, 165-167 SAB: 30-31, 34, 35, 36, 40</p> <p>U4 ICCG: TE: CC24-CC26</p> <p>U5 Sessions: TE: 22-27, 44-49, 69-72, 73-76, 77-79, 80-84, 86-91, 92-97, 98-103, 104-110, 111-115, 116-110</p> <p>U6 Sessions: TE: 28-34, 46-49, 50-54, 55-58, 59-61, 68-73, 74-78, 79-82, 83-86, 87-90, 91-94, 105-109, 115-118, 119-122, 138-142, 155-158</p> <p>U6 ICCG: TE: CC35-CC37, CC38-CC41, CC42-CC46, CC47-CC50, CC51-CC54, CC55-CC58</p> <p>U7 Sessions: TE: 24-30, 31-36, 37-42, 43-47, 48-52, 53-55, 62-68, 75-80, 84-87</p> <p>U7 ICCG: TE: CC62-CC65</p>

Curriculum Units Kindergarten

- U1** Who Is in School Today?
- U2** Counting and Comparing
- U3** What Comes Next?
- U4** Measuring and Counting

- U5** Make a Shape, Build a Block
- U6** How Many Do You Have?
- U7** Sorting and Surveys

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<p>K.CC.2 Count forward beginning from a given number within the known sequence (instead of having to begin at 1).</p>	<p>U3 Session: TE: 103-107 U4 Sessions: SAB: 35 U5 Session: TE: 33-39 U6 Sessions: TE: 46-49, 74-78, 91-94, 115-118, 138-142, 155-158 SAB: 51, 56 U6 ICCG: TE: CC35-CC37, CC38-CC41, CC42-CC46, CC47-CC50, CC51-CC54, CC55-CC58 U7 Sessions: TE: 37-42, 62-68, 75-80, 84-87, 111-113, 119-121 SAB: 70, 71, 72, 74 U7 ICCG: TE: CC62-CC65</p>
<p>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).</p>	<p>U1 Sessions: TE: 100-105, 106-109, 110-114, 115-119, 120-123 SAB: 1, 3, 4 U2 Sessions: TE: 26-32, 33-38, 39-42, 43-46, 47-50, 51-54, 61-64, 65-70, 71-73 SAB: 5-9, 13 U4 Sessions: TE: 45-47, 58-64, 65-70, 71-75, 76-79, 80-84, 95-99, 100-103, 104-108, 143-147 SAB: 30-31, 34, 35, 36, 40 U6 Sessions: TE: 35-40, 91-94, 100-104, 105-109, 110-114, 119-122, 128-131 SAB: 51, 56 U6 ICCG: TE: CC42-CC46, CC47-CC50, CC51-CC54, CC55-CC58</p>

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Count to tell the number of objects.	
<p>K.CC.4 Understand the relationship between numbers and quantities; connect counting to cardinality.</p>	<p>U1 Sessions: TE: 24-31, 32-35, 36-40, 41-43, 44-46, 47-52, 58-63, 64-69, 70-75, 76-81, 82-88, 94-99, 100-105, 106-109, 110-114, 115-119, 120-123, 124-126 SAB: 1, 3, 4</p> <p>U2 Sessions: TE: 26-32, 33-38, 39-42, 43-46, 47-50, 51-54, 55-60, 61-64, 65-70, 71-73, 82-87, 88-90, 91-93, 94-99, 100-104, 105-109, 110-116, 117-120, 128-132, 142-144 SAB: 5-9, 13</p> <p>U3 Sessions: TE: 26-28, 35-39, 40-44, 58-64, 65-69, 80-84, 99-102, 103-107, 119-123, 124-128, 129-133</p> <p>U4 Sessions: TE: 28-32, 33-37, 48-52, 58-64, 65-70, 71-75, 76-79, 80-84, 90-94, 95-99, 100-103, 104-108, 117-120, 134-137, 153-156, 162-164, 165-167 SAB: 30-31, 34, 35, 36, 40</p> <p>U4 ICCG: TE: CC24-CC26</p> <p>U5 Sessions: TE: 22-27, 44-49, 69-72, 73-76, 77-79, 80-84, 86-91, 92-97, 98-103, 104-110, 111-115, 116-110</p> <p>U6 Sessions: TE: 28-34, 46-49, 50-54, 55-58, 59-61, 68-73, 74-78, 79-82, 83-86, 87-90, 91-94, 105-109, 110-114, 115-118, 119-122, 138-142, 155-158 SAB: 51, 56</p> <p>U6 ICCG: TE: CC35-CC37, CC38-CC41, CC42-CC46, CC47-CC50, CC51-CC54, CC55-CC58</p> <p>U7 Sessions: TE: 24-30, 31-36, 37-42, 43-47, 48-52, 53-55, 62-68, 75-80, 84-87</p> <p>U7 ICCG: TE: CC62-CC65 SAB: 70, 71, 72, 74</p>

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<p>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.</p>	<p>U1 Sessions: TE: 24-31, 32-35, 36-40, 41-43, 44-46, 47-52, 58-63, 64-69, 70-75, 76-81, 82-88, 94-99, 100-105, 106-109, 110-114, 115-119, 120-123, 124-126 SAB: 1, 3, 4</p> <p>U2 Sessions: TE: 26-32, 33-38, 39-42, 43-46, 47-50, 51-54, 55-60, 61-64, 65-70, 71-73, 82-87, 88-90, 91-93, 94-99, 100-104, 105-109, 110-116, 117-120, 128-132, 142-144 SAB: 5-9, 13</p> <p>U3 Sessions: TE: 26-28, 35-39, 40-44, 58-64, 65-69, 80-84, 99-102, 103-107, 119-123, 124-128, 129-133</p> <p>U4 Sessions: TE: 28-32, 33-37, 48-52, 58-64, 65-70, 71-75, 76-79, 80-84, 90-94, 95-99, 100-103, 104-108, 117-120, 134-137, 153-156, 162-164, 165-167</p> <p>U4 ICCG: TE: CC24-CC26 SAB: 30-31, 34, 35, 36, 40</p> <p>U5 Sessions: TE: 22-27, 44-49, 69-72, 73-76, 77-79, 80-84, 86-91, 92-97, 98-103, 104-110, 111-115, 116-110</p> <p>U6 Sessions: TE: 28-34, 46-49, 50-54, 55-58, 59-61, 68-73, 74-78, 79-82, 83-86, 87-90, 91-94, 105-109, 110-114, 115-118, 119-122, 138-142, 155-158 SAB: 51, 56</p> <p>U6 ICCG: TE: CC35-CC37, CC38-CC41, CC42-CC46, CC47-CC50, CC51-CC54, CC55-CC58</p> <p>U7 Sessions: TE: 24-30, 31-36, 37-42, 43-47, 48-52, 53-55, 62-68, 75-80, 84-87</p> <p>U7 ICCG: TE: CC62-CC65 SAB: 70, 71, 72, 74</p>

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<p>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.</p>	<p>U1 Sessions: TE: 24-31, 32-35, 36-40, 41-43, 44-46, 47-52, 58-63, 64-69, 70-75, 76-81, 82-88, 94-99, 100-105, 106-109, 110-114, 115-119, 120-123, 124-126 SAB: 1, 3, 4</p> <p>U2 Sessions: TE: 26-32, 33-38, 39-42, 43-46, 47-50, 51-54, 55-60, 61-64, 65-70, 71-73, 82-87, 88-90, 91-93, 94-99, 100-104, 105-109, 110-116, 117-120, 128-132, 142-144 SAB: 5-9, 13</p> <p>U3 Sessions: TE: 26-28, 35-39, 40-44, 58-64, 65-69, 80-84, 99-102, 103-107, 119-123, 124-128, 129-133</p> <p>U4 Sessions: TE: 28-32, 33-37, 48-52, 58-64, 65-70, 71-75, 76-79, 80-84, 90-94, 95-99, 100-103, 104-108, 117-120, 134-137, 153-156, 162-164, 165-167 SAB: 30-31, 34, 35, 36, 40</p> <p>U4 ICCG: TE: CC24-CC26</p> <p>U5 Sessions: TE: 22-27, 44-49, 69-72, 73-76, 77-79, 80-84, 86-91, 92-97, 98-103, 104-110, 111-115, 116-110</p> <p>U6 Sessions: TE: 28-34, 46-49, 50-54, 55-58, 59-61, 68-73, 74-78, 79-82, 83-86, 87-90, 91-94, 105-109, 110-114, 115-118, 119-122, 138-142, 155-158 SAB: 51, 56</p> <p>U6 ICCG: TE: CC35-CC37, CC38-CC41, CC42-CC46, CC47-CC50, CC51-CC54, CC55-CC58</p> <p>U7 Sessions: TE: 24-30, 31-36, 37-42, 43-47, 48-52, 53-55, 62-68, 75-80, 84-87</p> <p>U7 ICCG: TE: CC62-CC65 SAB: 70, 71, 72, 74</p>

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<p>K.CC.4.c. Understand that each successive number name refers to a quantity that is one larger.</p>	<p>U1 Sessions: TE: 24-31, 32-35, 36-40, 41-43, 44-46, 47-52, 58-63, 64-69, 70-75, 76-81, 82-88, 94-99, 100-105, 106-109, 110-114, 115-119, 120-123, 124-126 SAB: 1, 3, 4</p> <p>U2 Sessions: TE: 26-32, 33-38, 39-42, 43-46, 47-50, 51-54, 55-60, 61-64, 65-70, 71-73, 82-87, 88-90, 91-93, 94-99, 100-104, 105-109, 110-116, 117-120, 128-132, 142-144 SAB: 5-9, 13</p> <p>U3 Sessions: TE: 26-28, 35-39, 40-44, 58-64, 65-69, 80-84, 99-102, 103-107, 119-123, 124-128, 129-133</p> <p>U4 Sessions: TE: 28-32, 33-37, 48-52, 58-64, 65-70, 71-75, 76-79, 80-84, 90-94, 95-99, 100-103, 104-108, 117-120, 134-137, 153-156, 162-164, 165-167 SAB: 30-31, 34, 35, 36, 40</p> <p>U4 ICCG: TE: CC24-CC26</p> <p>U5 Sessions: TE: 22-27, 44-49, 69-72, 73-76, 77-79, 80-84, 86-91, 92-97, 98-103, 104-110, 111-115, 116-110</p> <p>U6 Sessions: TE: 28-34, 46-49, 50-54, 55-58, 59-61, 68-73, 74-78, 79-82, 83-86, 87-90, 91-94, 105-109, 110-114, 115-118, 119-122, 138-142, 155-158 SAB: 51, 56</p> <p>U6 ICCG: TE: CC35-CC37, CC38-CC41, CC42-CC46, CC47-CC50, CC51-CC54, CC55-CC58</p> <p>U7 Sessions: TE: 24-30, 31-36, 37-42, 43-47, 48-52, 53-55, 62-68, 75-80, 84-87</p> <p>U7 ICCG: TE: CC62-CC65 SAB: 70, 71, 72, 74</p>

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<p>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>	<p>U1 Sessions: TE: 24-31, 32-35, 36-40, 41-43, 47-52, 58-63, 64-69, 82-88, 94-99, 100-105, 106-109, 110-114, 115-119, 120-123</p> <p>U2 Sessions: TE: 26-32, 33-38, 39-42, 43-46, 47-50, 51-54, 55-60, 61-64, 65-70, 71-73, 91-93, 94-99, 100-104, 105-109, 110-116, 117-120, 142-144</p> <p>U3 Sessions: TE: 35-39, 58-64, 65-69, 80-84, 99-102, 103-107, 119-123, 124-128, 129-133</p> <p>U4 Sessions: TE: 28-32, 33-37, 38-44, 45-47, 48-52, 58-64, 65-70, 71-75, 80-84, 90-94, 95-99, 100-103, 104-108, 162-164 SAB: 30-31, 34, 35, 36, 40</p> <p>U4 ICCG: TE: CC15-CC19, CC20-CC23, CC24-CC26</p> <p>U5 Sessions: TE: 73-76, 77-79, 80-84, 98-103, 104-110, 111-115, 116-110</p> <p>U6 Sessions: TE: 46-49, 50-54, 55-58, 59-61, 68-73, 74-78, 79-82, 83-86, 87-90, 91-94, 105-109, 110-114, 115-118, 119-122 SAB: 51, 56</p> <p>U7 Sessions: TE: 24-30, 31-36, 43-47, 53-55, 88-95 SAB: 70, 71, 72, 74</p>

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Compare numbers.	
<p>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.1</p>	<p>U2 Sessions: TE: 94-99, 100-104, 105-109, 110-116, 117-120, 121-127, 128-132, 133-141, 142-144, 145-149 SAB: 10-12, 16, 17</p> <p>U3 Session: TE: 65-69</p> <p>U4 Sessions: TE: 45-47, 95-99, 100-103, 104-108, 109-112, 113-116, 117-120 SAB: 38</p> <p>U5 Sessions: TE: 69-72</p> <p>U6 Sessions: TE: 105-109, 110-114, 115-118 SAB: 44, 49, 61</p> <p>U7 Sessions: TE: 88-95</p>
<p>K.CC.7 Compare two numbers between 1 and 10 presented as written numerals.</p>	<p>U2 Sessions: TE: 100-104, 105-109, 110-116, 117-120, 121-127, 128-132, 133-141, 142-144, 145-149 SAB: 10-12</p> <p>U4 Sessions: TE: 104-108, 109-112, 113-116, 117-120 SAB: 38</p> <p>U6 Sessions: TE: 105-109, 110-114, 115-118, 119-122, 123-127, 128-131 SAB: 44, 49, 61</p>

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Operations and Algebraic Thinking K.OA	
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.	U4 Sessions: TE: 65-70, 71-75, 76-79, 80-84, 95-99, 100-103, 104-108, 109-112, 113-116, 117-120, 134-137, 143-147, 148-152 U6 Sessions: TE: 28-34, 35-40, 41-45, 46-49, 68-73, 74-78, 83-86, 100-104, 105-109, 110-114, 115-118, 119-122, 123-127, 128-131, 138-142, 143-145, 146-150, 151-154, 155-158, 159-161 U6 ICCG: TE: CC42-CC46 SAB: 58, 60, 101
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.	U4 Sessions: TE: 65-70, 71-75, 76-79, 80-84, 95-99, 100-103, 109-112, 117-120, 134-137, 148-152 U6 Sessions: TE: 100-104, 110-114, 115-118, 119-122, 123-127, 128-131, 138-142, 151-154, 155-158 SAB: 53, 62, 63, 64, 65, 67, 68

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<p>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 $5 = 4 + 1$).</p>	<p>U4 Sessions: TE: 128-133, 134-137, 138-142, 143-147, 148-152, 153-156, 157-161, 162-164, 165-167 SAB: 33</p> <p>U6 Sessions: TE: 28-34, 35-40, 41-45, 46-49, 50-54, 55-58, 59-61, 138-142, 143-145, 146-150, 151-154, 155-158, 159-161 SAB: 55, 67, 68</p> <p>U6 ICCG: TE: CC42-CC46, CC51-CC54, CC55-CC58</p>
<p>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.</p>	<p>U4 Sessions: TE: 138-142, 143-147, 148-152, 153-156, 157-161, 165-167</p> <p>U6 Sessions: TE: 28-34, 35-40, 41-45, 46-49, 50-54, 55-58, 59-61, 138-142, 143-145, 146-150, 151-154, 155-158, 159-161</p> <p>U6 ICCG: TE: 5A.2, 5A.4, 5A.5</p>
<p>K.OA.5 Fluently add and subtract within 5.</p>	<p>U6 Sessions: TE: 28-34, 35-40, 41-45, 46-49, 50-54, 55-58, 59-61, 138-142, 143-145, 146-150, 151-154, 155-158, 159-161 SAB: 53</p> <p>U6 ICCG: TE: CC42-CC46, CC51-CC54, CC55-CC58</p>

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Number and Operations in Base Ten K.NBT	
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.	U6 ICCG: TE: CC42-CC46, CC51-CC54, CC55-CC58
Measurement and Data K.MD	
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.	U2 Sessions: TE: 26-32, 33-38, 39-42 SAB: 10-12, 26-28 U4 Sessions: TE: 28-32, 33-37, 38-44, 45-47, 48-52 SAB: 35 U4 ICCG: TE: CC15-CC19, CC20-CC23, CC24-CC26 SAB: 32 U6 Sessions: TE: 79-82, 83-86, 87-90, 91-94

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<p>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></p>	<p>U2 Sessions: TE: 82-87, 88-90, 91-93, 94-99, 105-109, 110-116, 117-120, 128-132, 142-144, 145-149 SAB: 10-12</p> <p>U4 Sessions: TE: 45-47 SAB: 35</p> <p>U4 ICCG: TE: CC15-CC19, CC20-CC23, CC24-CC26</p>

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- U1** Who Is in School Today?
- U2** Counting and Comparing
- U3** What Comes Next?
- U4** Measuring and Counting

- U5** Make a Shape, Build a Block
- U6** How Many Do You Have?
- U7** Sorting and Surveys

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Classify objects and count the number of objects in each category.	
<p>K.MD.3 Classify objects into given categories; count the numbers of objects in each category and sort the categories by count.</p>	<p>U1 Sessions: TE: 94-99, 106-109, 110-114, 115-119, 120-123, 124-126</p> <p>U2 Sessions: TE: 39-42, 51-54, 65-70, 82-87, 88-90, 91-93, 100-104, 117-120, 133-137, 145-149</p> <p>U3 Sessions: TE: 29-34, 45-49, 70-74, 85-89, 114-118, 134-137</p> <p>U4 Sessions: TE: 38-44, 65-70, 90-94, 109-112, 134-137, 143-147, 153-156</p> <p>U4 ICCG: TE: CC20-CC23</p> <p>U5 Sessions: TE: 28-32, 50-52, 98-103, 121-124 SAB: 44</p> <p>U6 Sessions: TE: 35-40, 55-58, 79-82, 100-104, 119-122, 143-145, 159-161</p> <p>U7 Sessions: TE: 24-30, 31-36, 37-42, 43-47, 48-52, 53-55, 62-68, 69-74, 75-80, 81-83, 88-95, 100-105, 106-110, 111-113, 114-118, 119-121 SAB: 75, 76</p>

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Geometry K.G	
Identify and describe shapes (squares, circles, triangles, rectangles, hexagons, cubes, cones, cylinders, and spheres).	
<p>K.G.1 Describe objects in the environment using names of shapes, and describe the relative positions of these objects using terms such as <i>above</i>, <i>below</i>, <i>beside</i>, <i>in front of</i>, <i>behind</i>, and <i>next to</i>.</p>	<p>U1 Sessions: TE: 24-31, 47-52, 64-69, 70-75, 76-81, 110-114</p> <p>U2 Session: TE: 33-37</p> <p>U3 Session: TE: 29-34</p> <p>U4 Session: TE: 128-133</p> <p>U5 Sessions: TE: 22-27, 28-32, 33-39, 44-49, 50-52, 58-63, 92-97, 104-110</p>
<p>K.G.2 Correctly name shapes regardless of their orientations or overall size.</p>	<p>U1 Sessions: TE: 76-81, 110-114</p> <p>U3 Session: TE: 29-34</p> <p>U5 Sessions: TE: 28-32, 33-39, 40-43, 44-49 SAB: 52</p>
<p>K.G.3 Identify shapes as two-dimensional (lying in a plane, "flat") or three-dimensional ("solid").</p>	<p>U3Sessions: SAB: 18</p> <p>U5 Sessions: TE: 22-27, 28-32, 33-39, 40-43, 44-49, 50-52, 54-57, 58-63, 64-68, 69-72, 73-76, 80-84, 86-91, 92-97, 98-103, 104-110, 111-115, 116-120, 121-124, 125-128, 129-132</p>

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Analyze, compare, create, and compose shapes.	
<p>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).</p>	<p>U3 Sessions: SAB: 18</p> <p>U5 Sessions: TE: 22-27, 28-32, 33-39, 40-43, 44-49, 54-57, 58-63, 64-68, 69-72, 73-76, 80-84, 86-91, 92-97, 98-103, 104-110, 111-115, 116-120, 121-124, 125-128, 129-132 SAB: 44, 49</p> <p>U6 Sessions: SAB: 52</p> <p>U7 Sessions: SAB: 76</p>
<p>K.G. 5 Model shapes in the world by building shapes from components (e.g., sticks and clay balls) and drawing shapes.</p>	<p>U5 Sessions: TE: 28-32, 33-39, 40-43, 44-49, 50-52, 58-63, 77-79, 111-115, 125-128 SAB: 42, 45-48</p>
<p>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></p>	<p>U5 Sessions: TE: 28-32, 33-39, 40-43, 44-49, 50-52, 58-63, 77-79, 111-115, 125-128 SAB: 43</p>

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