▶ Kindergarten Unit 7: Weight & Place Value

Big Conceptual Idea: <u>K-5 Progression on Number and Operations in Base Ten</u> (pp. 1-5), <u>K-5 Progression on Counting and</u> <u>Cardinality and Operations and Algebraic Thinking (pp. 1-11), K-5 Progression on Measurement and Data (Measurement Part)</u> (pp. 1-4, 6-7), <u>K-5 Progression on Measurement and Data (Data Part)</u> (pp. 1-5)

Read the Bridges <u>Unit Overview/Introduction</u> for Unit 7 pp. i-vi. Also read each <u>Module Overview</u> for the current <u>week's sessions</u>, and the current <u>Session Summary</u> along with details for the teaching of each session as you work through Unit 3. These Introduction/Overview/Summary sections provide focus, clarity, vocabulary, definitions, and examples for the "big mathematical ideas and understandings" critical to Kindergarten. This information will support your professional decision-making within the Sessions and Modules as needed.

Mathematical	Unit Essential Question for the Teacher:
Background:	How do I encourage students to use what they know about the
Read Bridges Unit 7	number 5 as they are developing number understanding within
Overview and	10 and then with 10 ones and some more ones? How do I
Introduction (pp. i-vi)	support understanding of measurement with continuous
	attributes? How do I support students' early strategies in
	addition and subtraction?



Instructional note:

In Bridges Unit 7 students' use of 5 as a landmark and sub-base is a critical foundation for the understanding of place value. Understanding of 5 (being able to visually and mentally manipulate the quantity of 5 and the numbers within 5) is also beginning evidence of *Mathematical Practice 7 Look for and make use of structure* (NVACS, 2010, p. 8). As students move more intentionally and developmentally forward into numbers within 10, and then 10 ones and some more ones, confirm they are making mathematical connections from mathematical understanding of quantities as they work with various contexts, materials, and models.

In the *K-6 Progression on Number and Operations in Base Ten*, it states, "In Kindergarten, teachers help children lay the foundation for understanding the base-ten system by drawing special attentions to 10. Children learn to view the whole numbers 11 through 19 as ten ones and some more ones" (p. 5). **Do not move too quickly into procedural writing of number equations**. Continue to encourage the building of solid synaptic connections as quoted above. Students will be using visual models (ten-frames, double ten-frames, trains of cubes, bundles of sticks, number lines, drawings and equations) as they develop understanding of working with 10s and some more 1s. In moving away from counting by 1s, students are encouraged to use a variety of strategies, such as subitizing, using fingers, counting on, counting backward, using the 1-9 sequence, using doubles, using known facts, skip counting, etc. for quick recognition of parts of numbers (Fosnot, 2001).

In Unit 7 students will also be developing strategies through the use of manipulatives, equations or drawings to compose and decompose numbers from 11-19. See Introduction p. iv for suggestions of strategic behaviors to watch for in early addition and subtraction. *Table I. Common addition and subtractions situations* (NVACS, 2010, p.88) provides support for the development of addition and subtraction

Measurement Unit 7: As students learn to recognize, describe, and compare various continuous attributes, the measurement of weight (which has non-geometric attributes as well as do mass, capacity, time, and color often explored in science or social studies) is introduced. Weight, however, is not a focus for mathematics in kindergarten (see *K-5 Progression on Measurement and Data (Measurement Part – K-5 Geometric Measurement*). This Unit does give students opportunity to revisit the ideas of interval counting, continuous attributes, units, indirectly comparing objects using numbers, estimating, and equality in comparisons focused on in Unit 4.

The mathematics content of Unit 7:

Children construct understandings in connected and integrated ways, not as isolated, individual pieces. Therefore, continually ask students to explain how they are problem solving ("How did you know?", "What made you think that?", etc.) so you can make explicit the connections students are already making from previous learning, strengthen the synaptic connections being constructed, and encourage the continuance of this sense-making behavior (NVACS, 2010, p. 6).

- Support and instruct to the development of the new big mathematical ideas of:
 - Measurement (weight and capacity).
 - Representing and solving addition and subtraction problems with objects, drawings or equations.
- Watch for students' attempts at thinking about and using these new strategic behaviors/strategies to demonstrate their emerging understandings of the big mathematical ideas:
 - Describing weight
 - Describing capacity

- Creating and extending patterns
- Drawing equations
- Direct modeling
- Counting on

Over time, with supportive and scaffolded instruction and interactions, students come to a more precise understanding of measurement and place value, as well as developing appropriate precision with mathematics content and vocabulary. Intentionality with the context and range of numbers students work with supports number sense development and expansion.

On-going enrichment:

- Take note of the <u>Skills Across the Grade Level</u> chart in the Introduction section to each Unit. This chart shows the extent and expectation of the development of Standards within the Unit (ex: Unit 7, pp. v-vi), and within which other Units and *Number Corner Workouts* the Standards continues to be taught across the year. This information will also support your professional decision-making within the Unit for instruction, intensification, and intervention.
- Expect all students to engage in the problem solving and in explaining and justifying their thinking
- Use Table 1 in the Nevada Academic Content Standards (NVACS) titled <u>"Common addition and subtraction situations"</u> (p. 88) to think about intensification and acceleration.

	Academic Vocabulary s consistently during instruction.		
Essential Academic Vocabulary: (first time explicitly taught) *indicates Word Resource Cards are available in the materials	Review Vocabulary: (Vocabulary from Number Corner	or prior units)	
weight*	zero numeral number* equal* heavy/heavier/heaviest* light/lighter/lightest*	after* before* greater than* ones* tens*	less than* more* less* measure estimate*

Additional terminology that students may need support with: strategies, in all, minus, plus, combinations, actual, greater, different, same, compare*

Standards listed in **bold** indicate a focus of the lesson

NVACS	bold indicate a focus of the lesson.	
(Content and Practices)	Mathematical Development of the Big Idea	Instructional Clarifications & Considerations
Module 1- Ses	ssion 1: Compare Weights	
K.CC.1 K.MD.1 K.MD.2 K.MD.3 MP.1 MP.5 MP.7	 Access Prior Learning and Connections to Future Learning: Describe measurable attributes of objects, such as length or weight; 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; and compare weights are all covered only in this unit. (The CCSS does not differentiate between weight and mass.) Developing the Big Idea and key Strategic Behaviors: describing and comparing weight Secure: counting 	 Guiding Questions: How can I compare 2 objects by weight? How does a balance scale help us tell if an object is heavier or lighter? Does an object's size affect its weight? Does bigger always mean heavier? Instructional Notes: Visual models are balance scale and objects to measure weight Literature Connections: Mighty Maddie by Stuart J Murphy Number Corner Connections: Describe measurable attributes of objects, such as length or weight. 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 Writing and Enrichment: In journals or on paper make a t-chart to record the heavy and light sort during the <i>Problems & Investigation</i> session (can be recorded with pictures or word). Show the class a beach ball and baseball. Ask students to list all the ways they can compare and measure these 2 objects. Then, ask students to compare them by weight. Have students explain which weighs more in writing. Pose the question for a written response: Does bigger always mean heavier? (beach ball/tennis ball) Why? Can also extend the discussion to comparison between baseball and tennis ball. Optional Unit 7 Work Place Log available on p. T5

would I- Ses	ssion 2: A Pound of Potatoes	
	Access Prior Learning and	Guiding Questions:
K.CC.1	Connections to Future Learning:	How can I compare 2 objects by weight?
K.MD.1	Describe measurable attributes	 How does a balance scale help us tell if an object is heavier or lighter?
K.MD.2	of objects, such as length or	If I wanted to pick something up, what would I want to know about what I was going to lift?
	weight; directly compare two	
K.MD.3	objects with a measurable	Instructional Notes:
	attribute in common to see which	• Visual models are a balance scales, potatoes, other objects to measure weight, and recording
MP.1	object has "more of"/"less of" the	sheet visual.
MP.5		Students are problem solving heavier and lighter.
	attribute, and describe the	• The lesson focuses on the comparison in weight using a pound of potatoes. Lesson might be
MP.7	difference; and compare weights	adapted to have students find things that weigh as much as an apple, tennis ball, water bottle,
	are all covered only in this unit.	baseball, or small block.
	(The CCSS does not differentiate	Literature Compatible
	between weight and mass.)	Literature Connections:
		Mighty Maddle by Stuart J Murphy
	Developing the Big Idea and key	Balancing Act by Ellen Stoll Walsh
	Strategic Behaviors:	Number Corner Connections:
	 describing and comparing 	
	weight	Expected to be secure at this time: Describe recovere this time:
		Describe measurable attributes of objects, such as length or weight. Explored in April.
	Secure:	 Directly compare two objects with a measurable attribute in common, to see which object
	• counting	has "more of"/"less of" the attribute, and describe the difference. Explored in Nov. and Apr.
	- counting	Writing and Enrichment:
		Using a balance scale what objects can you find that weigh as much as a tennis ball?
		 Bridges Resource Digital Pan Balance found on the <u>Bridges web site</u>.
		 Bridges Resource Digital Fail Balance found on the <u>Bridges web site</u>. Home Connection p. 10 and Home Connection tab pp. 173-175
Modulo 1 Sc	ession 3: Introducing Work Place	
	Access Prior Learning and	Guiding Questions:
	Connections to Future Learning:	How can I compare 2 objects by weight?
K.CC.1	Describe measurable attributes	 How does a balance scale help us tell if an object is heavier or lighter?
K.MD.1		
K.MD.2	of objects, such as length or	Instructional Notes:
K.MD.3	weight; directly compare two	Visual models are a balance scales and objects to measure by weight
	objects with a measurable	• Digital display tool link (p.2) found on the <u>Bridges web site</u> .
	attribute in common to see which	
MP.1	object has "more of"/"less of" the	Literature Connections:
MP.5	attribute, and describe the	Equal Shmequal by Virginia Kroll
MP.7	difference; and compare weights	
	are all covered only in this unit.	Number Corner Connections:
	(The CCSS does not differentiate	Expected to be secure at this time:
	between weight and mass.)	 Describe measurable attributes of objects, such as length or weight. Explored in April.
	5 ,	 Directly compare two objects with a measurable attribute in common, to see which object
	Developing the Big Idea and key	has "more of"/"less of" the attribute, and describe the difference. Explored in Nov. and Apr.
	Strategic Behaviors:	Weiling and Envictment
	describing and comparing	Writing and Enrichment:
	weight	See Teacher Masters (p. T3) of the Work Place Guides for Differentiation ideas See Work Place Instructions (n. T4) for some unreliance
		See Work Place Instructions (p. T4) for game variations
	Secure:	
	• counting	
Module 1- Se		
Module 1- Se	counting	Guiding Questions:
	counting ession 4: Measuring Handfuls Access Prior Learning and	Guiding Questions: • Is your handful closer to 10, 20 or 30? How do you know?
K.CC.1	counting ession 4: Measuring Handfuls Access Prior Learning and Connections to Future Learning:	
K.CC.1 K.CC.3	counting ession 4: Measuring Handfuls Access Prior Learning and Connections to Future Learning: Count up to 20 objects arranged	Is your handful closer to 10, 20 or 30? How do you know?What is an efficient strategy for counting handfuls?
K.CC.1 K.CC.3 K.CC.5	 counting ession 4: Measuring Handfuls Access Prior Learning and Connections to Future Learning: Count up to 20 objects arranged in a line, rectangular array or 	 Is your handful closer to 10, 20 or 30? How do you know? What is an efficient strategy for counting handfuls? Instructional Notes:
K.CC.1 K.CC.3 K.CC.5 K.OA.3	 counting ession 4: Measuring Handfuls Access Prior Learning and Connections to Future Learning: Count up to 20 objects arranged in a line, rectangular array or circle to answer "how many?" is 	Is your handful closer to 10, 20 or 30? How do you know?What is an efficient strategy for counting handfuls?
K.CC.1 K.CC.3 K.CC.5	 counting ession 4: Measuring Handfuls Access Prior Learning and Connections to Future Learning: Count up to 20 objects arranged in a line, rectangular array or 	 Is your handful closer to 10, 20 or 30? How do you know? What is an efficient strategy for counting handfuls? Instructional Notes: Visual models are cubes and ten-frame recording sheet.
K.CC.1 K.CC.3 K.CC.5 K.OA.3	 counting ession 4: Measuring Handfuls Access Prior Learning and Connections to Future Learning: Count up to 20 objects arranged in a line, rectangular array or circle to answer "how many?" is reinforced from Units 4 & 6. 	 Is your handful closer to 10, 20 or 30? How do you know? What is an efficient strategy for counting handfuls? Instructional Notes: Visual models are cubes and ten-frame recording sheet. Number Corner Connections:
K.CC.1 K.CC.3 K.CC.5 K.OA.3 K.NBT.1	 counting ession 4: Measuring Handfuls Access Prior Learning and Connections to Future Learning: Count up to 20 objects arranged in a line, rectangular array or circle to answer "how many?" is reinforced from Units 4 & 6. Developing the Big Idea and key 	 Is your handful closer to 10, 20 or 30? How do you know? What is an efficient strategy for counting handfuls? Instructional Notes: Visual models are cubes and ten-frame recording sheet. Number Corner Connections: Reviewed and extended to higher levels: Count up to 20 objects arranged in a line, rectangular
K.CC.1 K.CC.3 K.CC.5 K.OA.3 K.NBT.1 MP.1	 counting ession 4: Measuring Handfuls Access Prior Learning and Connections to Future Learning: Count up to 20 objects arranged in a line, rectangular array or circle to answer "how many?" is reinforced from Units 4 & 6. Developing the Big Idea and key Strategic Behaviors: 	 Is your handful closer to 10, 20 or 30? How do you know? What is an efficient strategy for counting handfuls? Instructional Notes: Visual models are cubes and ten-frame recording sheet. Number Corner Connections:
K.CC.1 K.CC.3 K.OA.3 K.NBT.1 MP.1 MP.2	 counting ession 4: Measuring Handfuls Access Prior Learning and Connections to Future Learning: Count up to 20 objects arranged in a line, rectangular array or circle to answer "how many?" is reinforced from Units 4 & 6. Developing the Big Idea and key Strategic Behaviors: using estimation 	 Is your handful closer to 10, 20 or 30? How do you know? What is an efficient strategy for counting handfuls? Instructional Notes: Visual models are cubes and ten-frame recording sheet. Number Corner Connections: Reviewed and extended to higher levels: Count up to 20 objects arranged in a line, rectangular
K.CC.1 K.CC.3 K.CC.5 K.OA.3 K.NBT.1 MP.1	 counting ession 4: Measuring Handfuls Access Prior Learning and Connections to Future Learning: Count up to 20 objects arranged in a line, rectangular array or circle to answer "how many?" is reinforced from Units 4 & 6. Developing the Big Idea and key Strategic Behaviors: 	 Is your handful closer to 10, 20 or 30? How do you know? What is an efficient strategy for counting handfuls? Instructional Notes: Visual models are cubes and ten-frame recording sheet. Number Corner Connections: Reviewed and extended to higher levels: Count up to 20 objects arranged in a line, rectangular
K.CC.1 K.CC.3 K.OA.3 K.NBT.1 MP.1 MP.2	 counting ession 4: Measuring Handfuls Access Prior Learning and Connections to Future Learning: Count up to 20 objects arranged in a line, rectangular array or circle to answer "how many?" is reinforced from Units 4 & 6. Developing the Big Idea and key Strategic Behaviors: using estimation using the ten-structure 	 Is your handful closer to 10, 20 or 30? How do you know? What is an efficient strategy for counting handfuls? Instructional Notes: Visual models are cubes and ten-frame recording sheet. Number Corner Connections: Reviewed and extended to higher levels: Count up to 20 objects arranged in a line, rectangular
K.CC.1 K.CC.3 K.CC.5 K.OA.3 K.NBT.1 MP.1 MP.2	 counting ession 4: Measuring Handfuls Access Prior Learning and Connections to Future Learning: Count up to 20 objects arranged in a line, rectangular array or circle to answer "how many?" is reinforced from Units 4 & 6. Developing the Big Idea and key Strategic Behaviors: using estimation 	 Is your handful closer to 10, 20 or 30? How do you know? What is an efficient strategy for counting handfuls? Instructional Notes: Visual models are cubes and ten-frame recording sheet. Number Corner Connections: Reviewed and extended to higher levels: Count up to 20 objects arranged in a line, rectangular

Module 2- Session 1: Capture the Number, Ten to Twenty K.CC.1 Access Prior Learning and K.CC.5 Connections to Future Learning: • Count up to 20 objects arranged in a line, rectangular array or circle to answer 'how many?' is reinforced from units 4 & 6. • How can I determine how much is on a double ten frame without counting each dot? MP.1 • Compose and decompose numbers from 11 to 19 into tens and ones is covered again in unit 8. • Usual models are double ten-frame five-wise display cards and the number line. MP.6 • Compose and decompose numbers from 11 to 19 into tens and ones is covered again in unit 8. • Uiterature Connections: • Using the ten-structure • Using the ten-structure • The Masloppy Family by Catherine Twomey-Fosnot Number Corner Connections: • Reviewed or extended to higher levels - Count up to 20 objects arranged in a line, rectangular array or circle to answer how many. Explored in Feb., Mar., & Apr. • Developing the Big Idea and key Strategic Behaviors: • Using the ten-structure • using the ten-structure • Compose and decompose numbers from 11 to 19 into tens and ones. Explored in Dec., Mar. & Apr.	Module 1- Se K.CC.1 K.CC.3 K.OA.3 K.NBT.1 MP.1 MP.2 MP.7	 ssion 5: Introducing Work Place Access Prior Learning and Connections to Future Learning: Count up to 20 objects arranged in a line, rectangular array or circle to answer "how many?" is reinforced from Units 4 & 6. Developing the Big Idea and key Strategic Behaviors: using estimation using the ten-structure Secure: counting 	 Writing and Enrichment: Bridges Number Frame app: App: https://www.mathlearningcenter.org/resources/apps/number-frames Number Frames The Math Learning Center Number Frames The Math Learning Center Number Frames The Math Learning Center Number Frames The Math Learning Center Combinations to Five and Equations CHECKPOINT – work individually with students (see p. 17 and T6). Also see scoring and reteaching suggestion in the Assessment Binder, Bridges Unit Assessments lab pp. 76-77. 7B Measuring Handfuls Guiding Questions: Is your handful closer to 10, 20 or 30? How do you know? What is an efficient strategy for counting handfuls? Instructional Notes: Visual models are cubes and recording sheets. Students are problem solving with groups of 1, 2, 5 and 10 using the ten-frame mats. See the sidebar note on p. 21. This Work Place may not be independent at this point. Teacher/adult support may be needed Consider using a smaller manipulative such as a two-colored counter, counting bears, counting bugs, or smaller pattern blocks for small hands. Digital display tool link found on the <u>Bridges web site</u>. Literature Connections: The Masloppy Family by Catherine Twomey-Fosnot Number Corner Connections: Reviewed or extended to higher levels - Count up to 20 objects arranged in a line, rectangular arrary or circle to answer how many. Explored in Feb., Mar., & Apr. Writing and Enrichment: See Teacher Masters (p. T7) of the Work Place Guides for Differentiation ideas See Work Place Instructions (p. T8) for game variations Home Connections (p. T3) for game variations
	K.CC.1 K.CC.5 K.NBT.1 MP.1 MP.2	 Access Prior Learning and Connections to Future Learning: Count up to 20 objects arranged in a line, rectangular array or circle to answer "how many?" is reinforced from units 4 & 6. Compose and decompose numbers from 11 to 19 into tens and ones is covered again in unit 8. Developing the Big Idea and key Strategic Behaviors: using the ten-structure Secure: 	 Guiding Questions: How can I determine how much is on a double ten frame without counting each dot? How can I use grouping to help me count? Instructional Notes: Visual models are double ten-frame five-wise display cards and the number line. Students are problem solving with more than, less than, and equal to. Digital display tool link found on the Bridges web site Literature Connections: The Masloppy Family by Catherine Twomey-Fosnot Number Corner Connections: Reviewed or extended to higher levels - Count up to 20 objects arranged in a line, rectangular array or circle to answer how many. Explored in Feb., Mar., & Apr. Developing - Compose and decompose numbers from 11 to 19 into tens and ones. Explored in

K.CC.1 K.CC.3 K.CC.5 K.CC.7 K.NBT.1 MP.1 MP.2 MP.6 MP.6 MOdule 2- Sess K.CC.1 K.CC.5 K.CC.6 K NBT 1	 sion 2: Introducing Work Place [•] Access Prior Learning and Connections to Future Learning: Count up to 20 objects arranged in a line, rectangular array or circle to answer "how many?" is reinforced from units 4 & 6. Compose and decompose numbers from 11 to 19 into tens and ones is covered again in unit 8. Developing the Big Idea and key Strategic Behaviors: using the ten-structure Secure: comparing quantities recognizing magnitude sion 3: Double Top Draw Access Prior Learning and Connections to Future Learning: Count up to 20 objects arranged in a line, rectangular array or 	 7C Capture the Number Guiding Questions: How can I determine how much is on a double ten frame without counting each dot? How can I use grouping to help me count? Instructional Notes: Visual models are double ten-frame five-wise cards and number line. Digital display tool link: Work Place 7C Capture the Number (student version) found on the Bridges web site. Literature Connections: The Masloppy Family by Catherine Twomey-Fosnot Number Corner Connections: Reviewed or extended to higher levels - Count up to 20 objects arranged in a line, rectangular array or circle to answer how many. Explored in Feb., Mar., & Apr. Developing - Compose and decompose numbers from 11 to 19 into tens and ones. Explored in Dec., Mar. & Apr. Writing and Enrichment: See Teacher Masters (M2 S2 p. T1) of the Work Place Guides for Differentiation ideas See Work Place Instructions (p. T2) for game variation Home Connection p. 9 and Home Connection tab pp. 181-184 Guiding Questions: How can I determine how much is on a double ten frame without counting each dot?
K.CC.1 K.CC.3 K.CC.5 K.CC.7 K.NBT.1 MP.1 MP.2 MP.6 MOdule 2- Sess K.CC.1 K.CC.5 K.CC.6 K.NBT.1 MP.1 MP.2	 Connections to Future Learning: Count up to 20 objects arranged in a line, rectangular array or circle to answer "how many?" is reinforced from units 4 & 6. Compose and decompose numbers from 11 to 19 into tens and ones is covered again in unit 8. Developing the Big Idea and key Strategic Behaviors: using the ten-structure Secure: comparing quantities recognizing magnitude sion 3: Double Top Draw Access Prior Learning and Connections to Future Learning: Count up to 20 objects arranged 	 How can I determine how much is on a double ten frame without counting each dot? How can I use grouping to help me count? Instructional Notes: Visual models are double ten-frame five-wise cards and number line. Digital display tool link: <i>Work Place</i> 7C Capture the Number (student version) found on the Bridges web site. Literature Connections: The Masloppy Family by Catherine Twomey-Fosnot Number Corner Connections: Reviewed or extended to higher levels - Count up to 20 objects arranged in a line, rectangular array or circle to answer how many. Explored in Feb., Mar., & Apr. Developing - Compose and decompose numbers from 11 to 19 into tens and ones. Explored in Dec., Mar. & Apr. Writing and Enrichment: See <i>Teacher Masters</i> (M2 S2 p. T1) of the <i>Work Place Guides for Differentiation</i> ideas See Work Place Instructions (p. T2) for game variation Home Connection p. 9 and Home Connection tab pp. 181-184
K.CC.1 K.CC.5 K.CC.6 K.NBT.1 MP.1 MP.2	Access Prior Learning and Connections to Future Learning: • Count up to 20 objects arranged	Guiding Questions:
K.CC.1 K.CC.5 K.CC.6 K.NBT.1 MP.1 MP.2	Access Prior Learning and Connections to Future Learning: • Count up to 20 objects arranged	
	 Identify the five-structure Identify the five-structure Identify the five-structure Identify whether the number of objects in one group is greater than, less than, or equal to the number of objects in another group is reinforced in all units. Compose and decompose numbers from 11-19 into tens and ones is covered in unit 8. 	 How can I use grouping to help me count? How can I use grouping to help me count? Instructional Notes: Visual models are double ten-frame pair-wise display cards and double ten-frame dot cards Students are problem solving with teen numbers. See sidebar notes p. 12 regarding use of the double ten-frames to support students' strategic behaviors. Digital display tool link found on the <u>Bridges web site</u>. Number Corner Connections: Reviewed or extended to higher levels - Count up to 20 objects arranged in a line, rectangular array or circle to answer how many. Explored in Feb., Mar., & April. Identify whether the number of objects in one group is greater than, less than, or equal to the number of objects in another group. Explored in Oct., Dec., Jan., Feb., Mar., & May. Developing - Compose and decompose numbers from 11 to 19 into tens and ones. Explored in Dec., Mar. & Apr.
	sion 4: Introducing Work Place	7D Double Top Draw
K.CC.5 K.CC.6 K.NBT.1 MP.1 MP.2 MP.7	 Access Prior Learning and Connections to Future Learning: Count up to 20 objects arranged in a line, rectangular array or circle to answer "how many?" is reinforced from units 4 & 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 is reinforced in all units. Compose and decompose numbers from 11 to 19 into tens and ones is covered again in unit 8. 	 Guiding Questions: How can I determine how much is on a double ten frame without counting each dot? How can I use grouping to help me count? Instructional Note: Visual models are double ten-frame cards. Number Corner Connections: Reviewed and extended to higher levels - Count up to 20 objects arranged in a line, rectangular array or circle to answer how many. Explored in Feb., Mar., & Apr. Identify whether the number of objects in one group is greater than, less than, or equal to the number of objects in another group. Explored in Oct., Dec., Jan., Feb., Mar., Apr., & May. Developing - Compose and decompose numbers from 11 to 19 into tens and ones. Explored in Dec., Mar. & Apr. Writing and Enrichment: See Teacher Masters (M2 S4 p. T7) of the Work Place Guides for Differentiation ideas See Work Place Instructions (p. T8) for game variations <i>continues on next page-</i>

	using the ten-structure	
	recognizing 10s in teen	
	numbers	
	Secure:	
	 using the five-structure 	
Modulo 2 Co	comparing quantities contain the second se	n2 Equal To2
Module 2- Se	ession 5: Greater Than? Less Tha	
	Access Prior Learning and	Guiding Questions:
K.CC.6	Connections to Future Learning:Identify whether the number of	How can I compare numbers using a number line?
K.CC.7	5	Instructional Notes:
	objects in one group is greater than, less than, or equal to the	Visual models are the number line and number cards
MP.1	number of objects in another	 Digital display tool link found on the <u>Bridges web site</u>.
MP.2	group is reinforced in all units.	Number Comer Connections
MP.7	group is remoreed in an units.	Number Corner Connections:
	Developing the Big Idea and key	 Reviewed and extended to higher levels - Identify whether the number of objects in one group is greater than, less than, or equal to the number of objects in another group. Explored in Oct.,
	Strategic Behaviors:	Dec., Jan., Feb., Mar., Apr., & May.
	comparing greater than, less	
	than, equal to	Writing and Enrichment:
		Note the SUPPORT and CHALLENGE ideas on p. 19 for differentiation ideas
		Home Connection p. 20 and Home Connection pp. 185-186
Module 3- Se	ession 1: Story Problems, Part 1	
	Access Prior Learning and	Guiding Questions:
K.CC.5	Connections to Future Learning:	How can I solve and represent problems using objects, pictures, words, and numbers?
K.CC.6	Represent addition with objects,	 How can strategies help us solve problems? How do you know when your answer makes sense? How can you model a math problem with objects and pictures?
K.OA.1	fingers, verbal explanations,	
K.OA.2	expressions and equations is	Instructional Notes:
K.OA.4	covered in Units 2,4,6,7, and 8.	Visual models are ten-frames, pictures, and Table 2: Addition and subtraction situations by grade
K.OA.5	Solve addition and subtraction word problems, and add and	manipulatives. Result Uninown Charge Uninown Aburnies sat on the grass. B more Aburnies were sitting on the grass.
	subtract within 10, e.g., by using	 Frogs Picture Problem 1 is for exploration only. This is a multiplication or reported. Ad To Ad To Ad To
MP.1	objects or drawings to represent	only. This is a multiplication or repeated addition NVACS Problem Type of Equal $A = C$
	the problem is also covered in	Groups and Number of Groups Unknown
MP.2	Unit 6.	• Frogs Picture Problem 2 is more accessible $T_{\text{Prom}}^{\text{Table}}$
MP.3	Working with equal groups of	for kindergarteners. It is a put together total
MP.4	objects by pairing objects or	unknown problem type. Tota Unknown Both Addends Unknown Both Addends Unknown Grand a da C flowers. How many
MP.5	counting them by 2s problem	Frogs Picture Problem 3 is a take from result In the table. How many applies are an one put in the rod was and how many in the back stars
WI .5	type is not mastered until second	unknown problem type, however, both the Together A+#-D C-D+D
	grade.	change and the result are not indicated leaving multiple responses as accurate.
	5	 Optional: As appropriate in Sessions 1, 2, and 3 in this Module, consider provided your own
	Developing the Big Idea and key	materials for this lesson by using a piece of blue construction paper for the pond, a strip of brown
	Strategic Behaviors:	construction paper for the log, and manipulatives to represent the frogs. Present students with
	recognizing equivalence	problem types within the Kindergarten expectations indicated on the chart above such as:
	 understanding part/whole 	Add to – "There are 4 frogs in the pond. Three more frogs jump into the pond. How any frogs are in the pond now?"
	relationships between addition	In the pond now ?" Take from – "There are 10 frogs sitting on the log. 4 frogs jump into the pond. How many frogs
	and subtraction	are left on the log?"
	 representing thinking 	Put together/Take apart – (see Problem 2) "There are 3 frogs on the log and 4 frogs in the
	Secure:	pond. How many frogs are there in all?" Also, "There are 8 frogs in all. 5 of the frogs are in the
	 sense making 	pond and the rest of the frogs are on the log. How many frogs are on the log?"
		Optional: Consider using Bridges problem types in Session 1, 2, and 3 as extension or challenge problems for students.
		 challenge problems for students. The referenced chart can be viewed here: K-5 Progression on Counting and Cardinality and
		I he referenced chart can be viewed here: <u>K-5 Progression on Counting and Cardinality and</u> <u>Operations and Algebraic Thinking (p. 9)</u>
		 Consider spending time engaging in discussion around explanations/justifications around one
		problem rather than glossing over all three problems.
		Digital display support link on the <u>Bridges web site</u>
		Literature Connections:
		Frogs by Gail Gibbons (builds background knowledge)
		-continues on next page-

-0		WCSD K-5 Mathematics Curriculum Guide
		 Number Corner Connections: Dec. – May Number Corner months explore representing addition in various ways. Solve addition and subtraction word problems, and add and subtract within 10, e.g., by using objects or drawings to represent the problem is a developing concept. This concept is also explored in Jan., Mar., and May.
Module 3- Se	ession 2: Story Problems, Part 2	
Module 3- So K.CC.5 K.CC.6 K.OA.1 K.OA.2 K.OA.4 K.OA.5 MP.1 MP.2 MP.3 MP.4 MP.5	 ession 2: Story Problems, Part 2 Access Prior Learning and Connections to Future Learning: Represent addition with objects, fingers, verbal explanations, expressions and equations is covered in Units 2,4,6,7, and 8. Solve addition and subtraction word problems, and add and subtract within 10, e.g., by using objects or drawings to represent the problem is also covered in Unit 6. Working with equal groups of objects by pairing objects or counting them by 2s problem type is not mastered until second grade. Work with compare problem types is not mastered until first grade. Developing the Big Idea and key Strategic Behaviors: recognizing equivalence using part/whole relationships between addition and subtraction representing thinking 	 Guiding Questions: How can I solve and represent problems using objects, pictures, words, and numbers? How can strategies help us solve problems? How do you know when your answer makes sense How can you model a math problem with objects and pictures? Instructional Notes: Visual models are ten-frames, pictures, and manipulatives. Frogs Picture Problem 4 is for exploration only. This is a NVACS problem type of compare difference unknown problem type. Frogs Picture Problem Type of Equal Groups and Number of Groups Unknown. Optional: As appropriate in Sessions 1, 2, and 3 in this Module, consider provided your own materials for this lesson by using a piece of blue construction paper for the log, and manipulatives to represent the frogs. Present students with problem types within the Kindergarten expectations indicated on the chart above such as: Add to - There are 4 frogs in the pond. Three more frogs jump into the pond. How many frogs are in the pond now?" Take from - There are 10 frogs sitting on the log. 4 frogs jump into the pond. How many frogs are left on the log?" Optional: Consider using Bridges problem 2) "There are 8 frogs in all. 5 of the frogs are in the pond. How many frogs are there in all?" Also, "There are 8 frogs in all. 5 of the frogs are in the pond. How many frogs are in the log. How many frogs are on the log?" Optional: Consider Corner months explore representing addition in various ways. The referenced chart can be viewed here: K-5 Progression on Counting and Cardinality and Operations and Algebraic. Thinking (p. 9) Digital display tool link found on the Bridges web site.
		 Writing and Enrichment: Optional - Home Connection p. 12 and Home Connection tab pp. 187-189
Module 3- Se	ession 3: Story Problems, Part 3	
K.CC.3 K.OA.1 K.OA.2 MP.1 MP.4 MP.5	 Access Prior Learning and Connections to Future Learning: Represent addition with objects, fingers, verbal explanations, expressions and equations is covered in Units 2,4,6,7, and 8. Solve addition and subtraction word problems, and add and subtract within 10, e.g., by using objects or drawings to represent the problem is also covered in Unit 6. Working with equal groups of objects by pairing objects or counting them by 2s problem type is not mastered until second grade. 	 Guiding Questions: How can I solve and represent problems using objects, pictures, words, and numbers? How can strategies help us solve problems? How do you know when your answer makes sense How can you model a math problem with objects and pictures? Instructional Notes: Visual models are ten-frames, pictures, and manipulatives. Problem 1 is for exploration only. This is a multistep problem. First, it is an NVACs add to, result unknown problem. The next step is an equal groups and unknown product problem type. Problem 2 is a multiplication or repeated addition NVACS Problem Type of Equal Groups and Unknown Product. Problem 3 is a multiplication or repeated addition NVACS Problem Type of Equal Groups and Unknown Product.
		-continues on next page-
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 Work with compare problem types is not mastered until first grade. Developing the Big Idea and key Strategic Behaviors: recognizing equivalence understanding part/whole relationships between addition and subtraction Secure: identifying hierarchical inclusion 	 Problem 4 is for exploration only. This is a multistep problem. Students are introduced to the concept of part-whole relationships as they recognize that a set of objects 7 can be broken into smaller sub-sets (5 & 2) and still remain the total amount 7. Students work with a set of objects (7) can be broken in multiple ways (5 & 2, 4 & 3, 7 & 0). Thus, when breaking apart a set (decomposing), students use the understanding that a smaller set of objects exists within that larger set (inclusion). Optional: As appropriate in Sessions 1, 2, and 3 in this Module, consider provided your own materials for this lesson by using a piece of blue construction paper for the pond, a strip of brown construction paper for the log, and manipulatives to represent the frogs. Present students with problem types within the Kindergarten expectations indicated on the chart above such as: Add to – "There are 4 frogs in the pond. Three more frogs jump into the pond. How many frogs are left on the log?" Take from – "There are 10 frogs sitting on the log. 4 frogs jump into the pond. How many frogs are left on the log?" Put together/Take apart – (see Problem 2) "There are 3 frogs on the log and 4 frogs in the pond and the rest of the frogs are on the log. How many frogs are on the log?" Optional: Consider using Bridges problem types in Session 1, 2, and 3 as extension or challenge problems for students. The referenced chart can be viewed here: K-5 Progression on Counting and Cardinality and Operations and Algebraic Thinking (p. 9) Literature Connections: Mer. Wishy Washy by Joy Cowley Number Corner Connections: Mer. Wishy Washy by Joy Cowley
Module 3- Session 4: Story Problems Checkpo	Jan., Mar., and May.
Access Prior Learning and	Guiding Questions:
K.OA.1 K.OA.2Connections to Future Learning: 	 How can I solve and represent problems using objects, pictures, words, and numbers? How can strategies help us solve problems? How do you know when your answer makes sense? How can you model a math problem with objects and pictures? Instructional Notes: Visual models are ten-frames, pictures, and manipulatives. Number Corner Connections:
 subtract within 10, e.g., by using objects or drawings to represent the problem is also covered in Unit 6. Fluently add with sums to 5 is reinforced from Units 4 and 6. Counting on, doubles strategies and known facts combinations to 10 is not mastered until first grade. Developing the Big Idea and key Strategic Behaviors: recognizing equivalence understanding part/whole relationships between addition and subtraction 	 Dec. – May Number Corner months explore representing addition in various ways. Solve addition and subtraction word problems, and add and subtract within 10, e.g., by using objects or drawings to represent the problem is a developing concept. This concept is also addressed in Jan., Mar., and May. Fluently add with sums to 5 is a developing concept. It is explored in FebMay also. Child Watching and Assessments: Story Problem Checkpoint – (see p. 18-19 and T1). Also see scoring and reteaching suggestion in the Assessment Binder, Bridges Unit Assessments tab pp. 79-80. Optional prompts that can be used instead of this Checkpoint problem, if desired – Prompt 1: Add to, result unknown problem type – Sam had 5 apples on the table. Mom gave him 3 more apples. How many apples does Sam have now? Prompt 2: Take from, result unknown problem type – Lisa had 9 blocks. She gave 5 to her sister. How many blocks does she have now? Prompt 3: Put together/take apart total unknown problem type - I have three blue balloons and 4 red balloons. How many balloons do I have in all? Prompt 4: Put together/take apart addend unknown - I have 9 pieces of fruit. 7 of them are apples and the rest are oranges. How many oranges do I have?
Module 3- Session 5: Cubes in My Hand	Outline Outsting
Access Prior Learning and K.OA.1 Connections to Future Learning:	Guiding Questions:What is an efficient way to count an amount greater than five?
 K.OA.2 K.OA.3 K.OA.5 Decompose numbers less than or equal to 10 in pairs more than one way. 	 What is an efficient strategy for counting five and some more? Instructional Notes: Visual models are cubes and drawings for equations.

MP.2	Developing the Big Idea and key	Literature Connection:
MP.5	Strategic Behaviors:	Five Green and Speckled Frogs
IVIP.5	 understanding part/whole 	
	relationships between addition	Number Corner Connections:
	and subtraction	Decompose numbers less than or equal to 10 in pairs more than one way and record is a
	 drawing and writing equations 	developing concept. It is explored in all Oct-May.
	Secure:	Writing and Enrichment:
		Home Connection p. 24 and Home Connection tab pp. 191-192
	recognizing equivalence	
	identifying combinations to 5	
Module 4- Se	ession 1: Counting Sticks	
	Access Prior Learning and	Guiding Questions:
K.CC.1	Connections to Future Learning:	 What is an efficient way to count an amount greater than ten?
K.CC.3	Compose and decompose	 What is an efficient strategy for counting teen numbers?
K.CC.7	numbers from 11 to 19 into ten	
	ones and some further ones,	Instructional Notes:
K.NBT.1	e.g., by using objects or	Visual models are double ten-frame five-wise display cards, written equations, craft sticks.
	drawings, and record each	 Digital display tool link found on the <u>Bridges web site</u>.
MP.1		
	composition or decomposition by	Literature Connections:
MP.2	a drawing or equation (e.g., 18 =	The Masloppy Family by Cathy Fosnot
MP.3	10 + 8; and understand that	Number Corner Connections
MP.7	these numbers are composed of	Number Corner Connections:
WP.7	ten ones and one, two, three	 Compose and decompose numbers from 11 to 19 into ten ones and some further ones, e.g., by
	are addressed in Unit 8.	using objects or drawings, and record each composition or decomposition by a drawing or a_{12} and a_{12}
		equation (e.g., $18 = 10 + 8$); understand that these numbers are composed of ten ones and one,
	Developing the Big Idea and key	two, three, four, five, six, seven, eight, or nine ones are developing concepts. Addressed in Dec,
	Strategic Behaviors:	Mar., & May.
	 using the ten-structure 	
	 grouping and unitizing 	
	 drawing and writing equations 	
	Secure:	
	JECUIE.	
Module 1. Se	using estimation	
Module 4- Se	using estimation ession 2: Counting Dots	
	using estimation ession 2: Counting Dots Access Prior Learning and	Guiding Questions:
K.CC.3	using estimation ession 2: Counting Dots Access Prior Learning and Connections to Future Learning:	What is an efficient way to count an amount greater than ten?
	using estimation ession 2: Counting Dots Access Prior Learning and Connections to Future Learning: Compose and decompose	
K.CC.3 K.CC.5	 using estimation ession 2: Counting Dots Access Prior Learning and Connections to Future Learning: Compose and decompose numbers from 11 to 19 into ten 	What is an efficient way to count an amount greater than ten?What is an efficient strategy for counting teen numbers?
K.CC.3 K.CC.5 K.CC.7	using estimation ession 2: Counting Dots Access Prior Learning and Connections to Future Learning: Compose and decompose	 What is an efficient way to count an amount greater than ten? What is an efficient strategy for counting teen numbers? Instructional Notes:
K.CC.3 K.CC.5	 using estimation ession 2: Counting Dots Access Prior Learning and Connections to Future Learning: Compose and decompose numbers from 11 to 19 into ten 	 What is an efficient way to count an amount greater than ten? What is an efficient strategy for counting teen numbers? Instructional Notes: Visual models are double ten-frame pair-wise display cards, double ten-frame five-wise display
K.CC.3 K.CC.5 K.CC.7	 using estimation ession 2: Counting Dots Access Prior Learning and Connections to Future Learning: Compose and decompose numbers from 11 to 19 into ten ones and some further ones, is addressed in Unit 8. 	 What is an efficient way to count an amount greater than ten? What is an efficient strategy for counting teen numbers? Instructional Notes: Visual models are double ten-frame pair-wise display cards, double ten-frame five-wise display cards, ten-frames, cubes, written equations.
K.CC.3 K.CC.5 K.CC.7	 using estimation ession 2: Counting Dots Access Prior Learning and Connections to Future Learning: Compose and decompose numbers from 11 to 19 into ten ones and some further ones, is 	 What is an efficient way to count an amount greater than ten? What is an efficient strategy for counting teen numbers? Instructional Notes: Visual models are double ten-frame pair-wise display cards, double ten-frame five-wise display
K.CC.3 K.CC.5 K.CC.7 K.NBT.1 MP.1	 using estimation ession 2: Counting Dots Access Prior Learning and Connections to Future Learning: Compose and decompose numbers from 11 to 19 into ten ones and some further ones, is addressed in Unit 8. 	 What is an efficient way to count an amount greater than ten? What is an efficient strategy for counting teen numbers? Instructional Notes: Visual models are double ten-frame pair-wise display cards, double ten-frame five-wise display cards, ten-frames, cubes, written equations. See sidebar notes on p. 10 for student flexibility.
K.CC.3 K.CC.5 K.CC.7 K.NBT.1 MP.1 MP.2	 using estimation ession 2: Counting Dots Access Prior Learning and Connections to Future Learning: Compose and decompose numbers from 11 to 19 into ten ones and some further ones, is addressed in Unit 8. Working with the Big Idea and key Strategic Behaviors 	 What is an efficient way to count an amount greater than ten? What is an efficient strategy for counting teen numbers? Instructional Notes: Visual models are double ten-frame pair-wise display cards, double ten-frame five-wise display cards, ten-frames, cubes, written equations. See sidebar notes on p. 10 for student flexibility. Number Corner Connections:
K.CC.3 K.CC.5 K.CC.7 K.NBT.1 MP.1	 using estimation ession 2: Counting Dots Access Prior Learning and Connections to Future Learning: Compose and decompose numbers from 11 to 19 into ten ones and some further ones, is addressed in Unit 8. Working with the Big Idea and key Strategic Behaviors Developing: 	 What is an efficient way to count an amount greater than ten? What is an efficient strategy for counting teen numbers? Instructional Notes: Visual models are double ten-frame pair-wise display cards, double ten-frame five-wise display cards, ten-frames, cubes, written equations. See sidebar notes on p. 10 for student flexibility. Number Corner Connections: Compose and decompose numbers from 11 to 19 into ten ones and some further ones, e.g., by
K.CC.3 K.CC.5 K.CC.7 K.NBT.1 MP.1 MP.2 MP.4	 using estimation ession 2: Counting Dots Access Prior Learning and Connections to Future Learning: Compose and decompose numbers from 11 to 19 into ten ones and some further ones, is addressed in Unit 8. Working with the Big Idea and key Strategic Behaviors Developing: using the ten-structure 	 What is an efficient way to count an amount greater than ten? What is an efficient strategy for counting teen numbers? Instructional Notes: Visual models are double ten-frame pair-wise display cards, double ten-frame five-wise display cards, ten-frames, cubes, written equations. See sidebar notes on p. 10 for student flexibility. Number Corner Connections: 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
K.CC.3 K.CC.5 K.CC.7 K.NBT.1 MP.1 MP.2	 using estimation ession 2: Counting Dots Access Prior Learning and Connections to Future Learning: Compose and decompose numbers from 11 to 19 into ten ones and some further ones, is addressed in Unit 8. Working with the Big Idea and key Strategic Behaviors Developing: 	 What is an efficient way to count an amount greater than ten? What is an efficient strategy for counting teen numbers? Instructional Notes: Visual models are double ten-frame pair-wise display cards, double ten-frame five-wise display cards, ten-frames, cubes, written equations. See sidebar notes on p. 10 for student flexibility. Number Corner Connections: 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,
K.CC.3 K.CC.5 K.CC.7 K.NBT.1 MP.1 MP.2 MP.4	 using estimation ession 2: Counting Dots Access Prior Learning and Connections to Future Learning: Compose and decompose numbers from 11 to 19 into ten ones and some further ones, is addressed in Unit 8. Working with the Big Idea and key Strategic Behaviors Developing: using the ten-structure drawing and writing equations 	 What is an efficient way to count an amount greater than ten? What is an efficient strategy for counting teen numbers? Instructional Notes: Visual models are double ten-frame pair-wise display cards, double ten-frame five-wise display cards, ten-frames, cubes, written equations. See sidebar notes on p. 10 for student flexibility. Number Corner Connections: 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 are developing concepts. Addressed in Dec,
K.CC.3 K.CC.5 K.CC.7 K.NBT.1 MP.1 MP.2 MP.4	 using estimation ession 2: Counting Dots Access Prior Learning and Connections to Future Learning: Compose and decompose numbers from 11 to 19 into ten ones and some further ones, is addressed in Unit 8. Working with the Big Idea and key Strategic Behaviors Developing: using the ten-structure drawing and writing equations Secure: 	 What is an efficient way to count an amount greater than ten? What is an efficient strategy for counting teen numbers? Instructional Notes: Visual models are double ten-frame pair-wise display cards, double ten-frame five-wise display cards, ten-frames, cubes, written equations. See sidebar notes on p. 10 for student flexibility. Number Corner Connections: 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,
K.CC.3 K.CC.5 K.CC.7 K.NBT.1 MP.1 MP.2 MP.4	 using estimation ession 2: Counting Dots Access Prior Learning and Connections to Future Learning: Compose and decompose numbers from 11 to 19 into ten ones and some further ones, is addressed in Unit 8. Working with the Big Idea and key Strategic Behaviors Developing: using the ten-structure drawing and writing equations 	 What is an efficient way to count an amount greater than ten? What is an efficient strategy for counting teen numbers? Instructional Notes: Visual models are double ten-frame pair-wise display cards, double ten-frame five-wise display cards, ten-frames, cubes, written equations. See sidebar notes on p. 10 for student flexibility. Number Corner Connections: 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 are developing concepts. Addressed in Dec, Mar, & May.
K.CC.3 K.CC.5 K.CC.7 K.NBT.1 MP.1 MP.2 MP.4	 using estimation ession 2: Counting Dots Access Prior Learning and Connections to Future Learning: Compose and decompose numbers from 11 to 19 into ten ones and some further ones, is addressed in Unit 8. Working with the Big Idea and key Strategic Behaviors Developing: using the ten-structure drawing and writing equations Secure: 	 What is an efficient way to count an amount greater than ten? What is an efficient strategy for counting teen numbers? Instructional Notes: Visual models are double ten-frame pair-wise display cards, double ten-frame five-wise display cards, ten-frames, cubes, written equations. See sidebar notes on p. 10 for student flexibility. Number Corner Connections: 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 are developing concepts. Addressed in Dec, Mar, & May. Writing and Enrichment:
K.CC.3 K.CC.5 K.CC.7 K.NBT.1 MP.1 MP.2 MP.4 MP.7	 using estimation ession 2: Counting Dots Access Prior Learning and Connections to Future Learning: Compose and decompose numbers from 11 to 19 into ten ones and some further ones, is addressed in Unit 8. Working with the Big Idea and key Strategic Behaviors Developing: using the ten-structure drawing and writing equations Secure: using estimation 	 What is an efficient way to count an amount greater than ten? What is an efficient strategy for counting teen numbers? Instructional Notes: Visual models are double ten-frame pair-wise display cards, double ten-frame five-wise display cards, ten-frames, cubes, written equations. See sidebar notes on p. 10 for student flexibility. Number Corner Connections: 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 are developing concepts. Addressed in Dec, Mar, & May.
K.CC.3 K.CC.5 K.CC.7 K.NBT.1 MP.1 MP.2 MP.4 MP.7	 using estimation ession 2: Counting Dots Access Prior Learning and Connections to Future Learning: Compose and decompose numbers from 11 to 19 into ten ones and some further ones, is addressed in Unit 8. Working with the Big Idea and key Strategic Behaviors Developing: using the ten-structure drawing and writing equations Secure: using estimation 	 What is an efficient way to count an amount greater than ten? What is an efficient strategy for counting teen numbers? Instructional Notes: Visual models are double ten-frame pair-wise display cards, double ten-frame five-wise display cards, ten-frames, cubes, written equations. See sidebar notes on p. 10 for student flexibility. Number Corner Connections: 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 are developing concepts. Addressed in Dec, Mar, & May. Writing and Enrichment: Home Connection p. 12 and Home Connection tab pp. 193-194
K.CC.3 K.CC.5 K.CC.7 K.NBT.1 MP.1 MP.2 MP.4 MP.7	 using estimation ession 2: Counting Dots Access Prior Learning and Connections to Future Learning: Compose and decompose numbers from 11 to 19 into ten ones and some further ones, is addressed in Unit 8. Working with the Big Idea and key Strategic Behaviors Developing: using the ten-structure drawing and writing equations Secure: using estimation ession 3: Counting Ten-Frames Access Prior Learning and 	 What is an efficient way to count an amount greater than ten? What is an efficient strategy for counting teen numbers? Instructional Notes: Visual models are double ten-frame pair-wise display cards, double ten-frame five-wise display cards, ten-frames, cubes, written equations. See sidebar notes on p. 10 for student flexibility. Number Corner Connections: 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 are developing concepts. Addressed in Dec, Mar, & May. Writing and Enrichment: Home Connection p. 12 and Home Connection tab pp. 193-194
K.CC.3 K.CC.5 K.CC.7 K.NBT.1 MP.1 MP.2 MP.4 MP.7 MOdule 4- Se K.CC.3	 using estimation ession 2: Counting Dots Access Prior Learning and Connections to Future Learning: Compose and decompose numbers from 11 to 19 into ten ones and some further ones, is addressed in Unit 8. Working with the Big Idea and key Strategic Behaviors Developing: using the ten-structure drawing and writing equations Secure: using estimation ession 3: Counting Ten-Frames Access Prior Learning and Connections to Future Learning: 	 What is an efficient way to count an amount greater than ten? What is an efficient strategy for counting teen numbers? Instructional Notes: Visual models are double ten-frame pair-wise display cards, double ten-frame five-wise display cards, ten-frames, cubes, written equations. See sidebar notes on p. 10 for student flexibility. Number Corner Connections: 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 are developing concepts. Addressed in Dec, Mar, & May. Writing and Enrichment: Home Connections: How can we represent a number with tens and ones?
K.CC.3 K.CC.7 K.NBT.1 MP.1 MP.2 MP.4 MP.7 MOdule 4- Se K.CC.3 K.CC.3	 using estimation ession 2: Counting Dots Access Prior Learning and Connections to Future Learning: Compose and decompose numbers from 11 to 19 into ten ones and some further ones, is addressed in Unit 8. Working with the Big Idea and key Strategic Behaviors Developing: using the ten-structure drawing and writing equations Secure: using estimation ession 3: Counting Ten-Frames Access Prior Learning and Connections to Future Learning: Count to 100 by 10s is not a 	 What is an efficient way to count an amount greater than ten? What is an efficient strategy for counting teen numbers? Instructional Notes: Visual models are double ten-frame pair-wise display cards, double ten-frame five-wise display cards, ten-frames, cubes, written equations. See sidebar notes on p. 10 for student flexibility. Number Corner Connections: 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 are developing concepts. Addressed in Dec, Mar, & May. Writing and Enrichment: Home Connection p. 12 and Home Connection tab pp. 193-194 Guiding Questions: How can we represent a number with tens and ones? What is an efficient way of counting a large quantity of objects?
K.CC.3 K.CC.5 K.CC.7 K.NBT.1 MP.1 MP.2 MP.4 MP.7 MOdule 4- Se K.CC.3	 using estimation ession 2: Counting Dots Access Prior Learning and Connections to Future Learning: Compose and decompose numbers from 11 to 19 into ten ones and some further ones, is addressed in Unit 8. Working with the Big Idea and key Strategic Behaviors Developing: using the ten-structure drawing and writing equations Secure: using estimation ession 3: Counting Ten-Frames Access Prior Learning and Connections to Future Learning: Count to 100 by 10s is not a focus in other units. 	 What is an efficient way to count an amount greater than ten? What is an efficient strategy for counting teen numbers? Instructional Notes: Visual models are double ten-frame pair-wise display cards, double ten-frame five-wise display cards, ten-frames, cubes, written equations. See sidebar notes on p. 10 for student flexibility. Number Corner Connections: 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 are developing concepts. Addressed in Dec, Mar, & May. Writing and Enrichment: Home Connections: How can we represent a number with tens and ones?
K.CC.3 K.CC.5 K.CC.7 K.NBT.1 MP.1 MP.2 MP.4 MP.7 MP.7 MOdule 4- See K.CC.3 K.CC.5 K.CC.6	 using estimation ession 2: Counting Dots Access Prior Learning and Connections to Future Learning: Compose and decompose numbers from 11 to 19 into ten ones and some further ones, is addressed in Unit 8. Working with the Big Idea and key Strategic Behaviors Developing: using the ten-structure drawing and writing equations Secure: using estimation ession 3: Counting Ten-Frames Access Prior Learning and Connections to Future Learning: Count to 100 by 10s is not a focus in other units. Understand that the two digits of 	 What is an efficient way to count an amount greater than ten? What is an efficient strategy for counting teen numbers? Instructional Notes: Visual models are double ten-frame pair-wise display cards, double ten-frame five-wise display cards, ten-frames, cubes, written equations. See sidebar notes on p. 10 for student flexibility. Number Corner Connections: 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 are developing concepts. Addressed in Dec, Mar, & May. Writing and Enrichment: How can we represent a number with tens and ones? What is an efficient way of counting a large quantity of objects? What strategy can we use to efficiently count a large quantity of objects?
K.CC.3 K.CC.5 K.CC.7 K.NBT.1 MP.1 MP.2 MP.4 MP.7 MP.7 Module 4- Se K.CC.3 K.CC.5 K.CC.6 K.CC.7	 using estimation ession 2: Counting Dots Access Prior Learning and Connections to Future Learning: Compose and decompose numbers from 11 to 19 into ten ones and some further ones, is addressed in Unit 8. Working with the Big Idea and key Strategic Behaviors Developing: using the ten-structure drawing and writing equations Secure: using estimation ession 3: Counting Ten-Frames Access Prior Learning and Connections to Future Learning: Count to 100 by 10s is not a focus in other units. Understand that the two digits of a two-digit number represent 	 What is an efficient way to count an amount greater than ten? What is an efficient strategy for counting teen numbers? Instructional Notes: Visual models are double ten-frame pair-wise display cards, double ten-frame five-wise display cards, ten-frames, cubes, written equations. See sidebar notes on p. 10 for student flexibility. Number Corner Connections: 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 are developing concepts. Addressed in Dec, Mar, & May. Writing and Enrichment: Home Connection p. 12 and Home Connection tab pp. 193-194 Guiding Questions: How can we represent a number with tens and ones? What is an efficient way of counting a large quantity of objects? What strategy can we use to efficiently count a large quantity of objects?
K.CC.3 K.CC.5 K.CC.7 K.NBT.1 MP.1 MP.2 MP.4 MP.7 MP.7 MOdule 4- See K.CC.3 K.CC.5 K.CC.5 K.CC.6 K.CC.7 K.OA.1	 using estimation ession 2: Counting Dots Access Prior Learning and Connections to Future Learning: Compose and decompose numbers from 11 to 19 into ten ones and some further ones, is addressed in Unit 8. Working with the Big Idea and key Strategic Behaviors Developing: using the ten-structure drawing and writing equations Secure: using estimation ession 3: Counting Ten-Frames Access Prior Learning and Connections to Future Learning: Count to 100 by 10s is not a focus in other units. Understand that the two digits of 	 What is an efficient way to count an amount greater than ten? What is an efficient strategy for counting teen numbers? Instructional Notes: Visual models are double ten-frame pair-wise display cards, double ten-frame five-wise display cards, ten-frames, cubes, written equations. See sidebar notes on p. 10 for student flexibility. Number Corner Connections: 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 are developing concepts. Addressed in Dec, Mar, & May. Writing and Enrichment: How can we represent a number with tens and ones? What is an efficient way of counting a large quantity of objects? What strategy can we use to efficiently count a large quantity of objects?
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K.CC.3 K.CC.5 K.CC.7 K.NBT.1 MP.1 MP.2 MP.4 MP.7 MP.7 MOdule 4- See K.CC.3 K.CC.5 K.CC.5 K.CC.6 K.CC.7 K.OA.1	 using estimation ession 2: Counting Dots Access Prior Learning and Connections to Future Learning: Compose and decompose numbers from 11 to 19 into ten ones and some further ones, is addressed in Unit 8. Working with the Big Idea and key Strategic Behaviors Developing: using the ten-structure drawing and writing equations Secure: using estimation ession 3: Counting Ten-Frames Access Prior Learning and Connections to Future Learning: Count to 100 by 10s is not a focus in other units. Understand that the two digits of a two-digit number represent amounts of tens and ones for exposure only for kindergarten. 	 What is an efficient way to count an amount greater than ten? What is an efficient strategy for counting teen numbers? Instructional Notes: Visual models are double ten-frame pair-wise display cards, double ten-frame five-wise display cards, ten-frames, cubes, written equations. See sidebar notes on p. 10 for student flexibility. Number Corner Connections: 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 are developing concepts. Addressed in Dec, Mar, & May. Writing and Enrichment: How can we represent a number with tens and ones? What is an efficient way of counting a large quantity of objects? What is an efficient way of counting a large quantity of objects? Instructional Note: Visual models are ten-frame five-wise display cards, ten-frame dot cards, and written equation. Literature Connections:
K.CC.3 K.CC.7 K.NBT.1 MP.1 MP.2 MP.4 MP.7 MP.7 MOdule 4- See K.CC.3 K.CC.5 K.CC.6 K.CC.7 K.OA.1 K.NBT.1	 using estimation ession 2: Counting Dots Access Prior Learning and Connections to Future Learning: Compose and decompose numbers from 11 to 19 into ten ones and some further ones, is addressed in Unit 8. Working with the Big Idea and key Strategic Behaviors Developing: using the ten-structure drawing and writing equations Secure: using estimation ession 3: Counting Ten-Frames Access Prior Learning and Connections to Future Learning: Count to 100 by 10s is not a focus in other units. Understand that the two digits of a two-digit number represent amounts of tens and ones for exposure only for kindergarten. Compare two two-digit numbers 	 What is an efficient way to count an amount greater than ten? What is an efficient strategy for counting teen numbers? Instructional Notes: Visual models are double ten-frame pair-wise display cards, double ten-frame five-wise display cards, ten-frames, cubes, written equations. See sidebar notes on p. 10 for student flexibility. Number Corner Connections: 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 are developing concepts. Addressed in Dec, Mar, & May. Writing and Enrichment: Home Connection p. 12 and Home Connection tab pp. 193-194 Guiding Questions: How can we represent a number with tens and ones? What is an efficient way of counting a large quantity of objects? What strategy can we use to efficiently count a large quantity of objects? Instructional Note: Visual models are ten-frame five-wise display cards, ten-frame dot cards, and written equation.
K.CC.3 K.CC.5 K.CC.7 K.NBT.1 MP.1 MP.2 MP.4 MP.7 MP.7 MOdule 4- See K.CC.3 K.CC.5 K.CC.5 K.CC.6 K.CC.7 K.OA.1	 using estimation ession 2: Counting Dots Access Prior Learning and Connections to Future Learning: Compose and decompose numbers from 11 to 19 into ten ones and some further ones, is addressed in Unit 8. Working with the Big Idea and key Strategic Behaviors Developing: using the ten-structure drawing and writing equations Secure: using estimation ession 3: Counting Ten-Frames Access Prior Learning and Connections to Future Learning: Count to 100 by 10s is not a focus in other units. Understand that the two digits of a two-digit number represent amounts of tens and ones for exposure only for kindergarten. 	 What is an efficient way to count an amount greater than ten? What is an efficient strategy for counting teen numbers? Instructional Notes: Visual models are double ten-frame pair-wise display cards, double ten-frame five-wise display cards, ten-frames, cubes, written equations. See sidebar notes on p. 10 for student flexibility. Number Corner Connections: 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 are developing concepts. Addressed in Dec, Mar, & May. Writing and Enrichment: How can we represent a number with tens and ones? What is an efficient way of counting a large quantity of objects? What is an efficient way of counting a large quantity of objects? Instructional Note: Visual models are ten-frame five-wise display cards, ten-frame dot cards, and written equation. Literature Connections:

MP.7	results of comparisons with the	Number Corner Connections:
MP.8	symbols >, =, and <. This is a	 Count to 100 by 10s is a developing skill. This is addressed in Oct., Dec., Feb., Mar., Apr., & May.
	first grade standard and for	May.
	exposure only for kindergarten.	Writing and Enrichment:
	Developing the Big Idea and key	Consider using the counting ten-frames game as an additional Work Place
	Strategic Behaviors:	
	 using the ten-structure 	
	5	
Madula 4 Ca	drawing and writing equations	
iviodule 4- Se	ession 4: Counting Stick Bundles	Guiding Questions:
14 00 F	Access Prior Learning and Connections to Future Learning:	 How can we represent a number with tens and ones?
K.CC.5	0	 What is an efficient way of counting a large quantity of objects?
K.NBT.1	Compose and decompose numbers from 11 to 19 into ten	 What is an enclored way of counting a large quantity of objects? What strategy can we use to efficiently count a large quantity of objects?
		• What strategy can we use to enclosing count a large quantity of objects:
MP.1	ones and some further ones is addressed in Unit 8.	Instructional Notes:
MP.2		 Visual models are ten-frame five-wise display cards and craft sticks.
	Understand that the two digits of a two-digit number represent	Literature Connections
MP.4	amounts of tens and ones is a	Literature Connections:
MP.6	first grade standard and for	One Hundred is a Family by Pam Munoz Ryan
MP.7	exposure only for kindergarten.	Number Corner Connections:
	 Given a two-digit number, 	• Compose and decompose numbers from 11 to 19 into ten ones and some further ones, e.g., by
	mentally find 10 more or 10 less	using objects or drawings, and record each composition or decomposition by a drawing or
	than the number, without having	equation (e.g., 18 = 10 + 8); understand that these numbers are composed of ten ones and one,
	to count; explain the reasoning	two, three, four, five, six, seven, eight, or nine ones are developing concepts. Addressed in Dec.,
	used are first grade standards	Mar., & May.
	and for exposure only for	
	kindergarten.	
	Rindol garten.	
	Developing the Big Idea and key	
	Strategic Behaviors:	
	 composing numbers beyond 20 	
	Developing:	
	 grouping and unitizing 	
	 using the ten-structure 	
Module 4- Se	ession 5: Counting Tens on the Hu	undreds Chart
	Access Prior Learning and	Guiding questions:
K.CC.1	Connections to Future Learning:	 How can we represent a number with tens and ones?
	Count to 100 by 10s is not a	What is an efficient way of counting a large quantity of objects?
MP.2	focus in other units.	What strategy can we use to efficiently count numerals that end in 0?
MP.7	Developing the District Street	What patterns can be found on the number grid?
1011 ./	Developing the Big Idea and key	Instructional Notes:
	Strategic Behaviors:	 Visual model is the one hundred grid, craft sticks bundles.
	counting to 100	 Digital display tool link found on the Bridges web site.
	grouping and unitizing	
	 skip counting 	Literature Connections:
	Secure:	Toasty Toes by Michael Dahl
	 recognizing number patterns 	Piggies by Audrey Wood
		How Many Feet in the Bed? by Diane Johnston Hamm
1		Number Corner Connections:
1		
		 Count to 100 by 10s is a developing skill. This is addressed in Oct, Dec, Feb, Mar, Apr, & May.

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