Student Name _			Date 1	Date 2	Date 3		
Topic E: Decomp	positions of 9 and 10 into Number Pairs	Topic E					
		Topic F					
Rubric Score:	Time Elapsed:	Topic G					
		Topic H					
T: (Put the marker T: Anya's f the othe each tal	marker to complete this number bond.						
What did the s	tudent do?	What did the s	student say?				
2.							





11/14/14



T	Topic F: Addition with Totals of 9 and 10						
F	Rubric Sco	e: Time Elapsed:	_				
Materials: (S) Personal white board, 9 dots (Template 1), cars (Template 2), flowers (Template 3), 10 lir cubes							
			+ on the personal white board.) Look at II in the blanks of the equation? Fill in the blanks.				
	re	_	en to my story, and use the cubes to help you cars in the parking lot. 4 green cars drove in. How + = on the board.) Write the numbers in				
	re	lace Template 3 in front of the student.) Liste member the numbers. There were 10 flower rite an addition sentence that matches this st	s. 8 of them were red, and 2 of them were blue.				
	What did	I the student do?	What did the student say?				
	1.						
	2.						
	3.						





Topic G	Topic G: Subtraction from 9 and 10							
Rubric S	ubric Score: Time Elapsed:							
Materia	Materials: (S) 10 linking cube stick (5 cubes one color, 5 cubes a different color), 9 crayons, brown paper bag, personal white board, paper, and pencil							
T:	finished, you a	re going to record what	you hear	.) Listen to my story, and watch what I do. When I'm r and see on your paper. You can use a drawing or a ing to put 1 in this paper bag. How many crayons are				
T:	them on the ta tells you how r	ble. How many did you	break of	How many cubes? Break off some cubes, and put ff? How many are still in your hand? (As the student on the personal white board.) Write the numbers king cubes.				
T:	-			e both items in front of the student.) Break off a ork by writing a subtraction sentence.				
What	did the student	do?		What did the student say?				
1.								
2.								
3.								





T	Topic H: Patterns with Adding 0 and 1 and Making 10							
R	Rubric Score: Time Elapsed:							
Ν	Materials: (S) 9 dots (Template 1), number sentences (Template 4), linking cubes, personal white board							
	T:	•	n front of the student.) Count and put the cubes ero cubes away. How many cubes are left? Put zero re in all?					
	T:	•	vious question. Put 5 loose linking cubes of different be on your stick. How many cubes are there? Put 1 w?					
	T:		en to my story. Hold up the equation that matches en, 3 frogs jumped in the pond. Now, there are 8 my story?					
		Listen to some more. There were 8 animals in Now, there are 5 animals in the pond. Which	the pond. The 3 frogs jumped out and went home. equation matches my story?					
	T:	(Put Template 1 in front of the student.) How that shows how many 9 needs to make 10.	many more does 9 need to be 10? Write an equation					
	T:		d marker.) Draw the number 7 using a 5-group. How a equation that shows how many 7 needs to make 10.					
	What	did the student do?	What did the student say?					
	1.							
	2.							
	3.							
	4.							
	5.							





#### End-of-Module Assessment Task Standards Addressed

Topics E-H

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. (Drawings need not show details, but should show the mathematics in the problem. This applies wherever drawings are mentioned in the Standards.)
- 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.
- **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).
- **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.

#### **Evaluating Student Learning Outcomes**

A Progression Toward Mastery is provided to describe and quantify steps that illuminate the gradually increasing understanding that students develop on their way to proficiency. In this chart, this progress is presented from left (Step 1) to right (Step 4). The learning goal for students is to achieve Step 4 mastery. These steps are meant to help teachers and students identify and celebrate what the students CAN do now and what they need to work on next.

Number Pairs, Addition and Subtraction to 10



Module 4: Date:

11/14/14



A Progression Towa				
Assessment Task Item and Standards Assessed	Task Item and Little evidence of reasoning without reas Standards a correct answer. a co		STEP 3 Evidence of some reasoning with a correct answer or evidence of solid reasoning with an incorrect answer. (3 Points)	STEP 4 Evidence of solid reasoning with a correct answer.  (4 Points)
Topic E K.OA.3	The student:  Writes random or no numbers in the number bond.  Is unable to represent the story using cubes or number bond.	The student:  Writes two numbers that are close but an incorrect number pair for 10 in the number bond.  Represents the story incorrectly with cubes and the number bond.  OR The student performs one of the tasks correctly with some teacher support.	The student:  Writes a correct number pair for 10 in the number bond.  OR  Represents the story correctly using cubes or a number bond.	The student correctly:  Writes a number pair for 10 in the number bond.  Represents the story using cubes and a number bond.
Topic F K.OA.2	The student shows little evidence of understanding addition sentences and is unable to complete most of the tasks.	The student:  Writes an incorrect number pair for 9.  Writes random numbers in the addition sentence and shows little understanding of the story.  Is unable to write an addition sentence, or the addition sentence is not understandable.  OR  The student performs one or more of the	The student:  Identifies and writes 5 for the dark dots and 4 for the light dots in the equation, or writes a different, correct number pair for 9.  Writes correct numbers in the addition sentence, with some confusion about parts and whole.  Writes an addition sentence that matches the story, with some confusion about	<ul> <li>Identifies and writes 5 for the dark dots and 4 for the light dots in the equation, or writes a different, correct number pair for 9.</li> <li>Writes all the correct numbers in the addition sentence: 6 + 4 = 10 or 4 + 6 = 10.</li> <li>Writes a correct addition sentence that matches the story: 10 = 8 + 2 or 8 + 2 = 10.</li> </ul>







		tasks correctly with some teacher support.	parts and whole.	
Topic G  K.OA.1  K.OA.2  K.OA.3	The student shows little evidence of understanding subtraction sentences and is unable to complete most of the tasks.	The student:  Represents the story using pictures, numbers, or symbols that are not related to the story.  Orally answers the questions incorrectly and writes random numbers in the blanks of the subtraction sentence.  Is unable to break off a different amount of cubes, and writes random numbers in the equation or is not able to write an equation.  OR The student performs one or more of the tasks correctly with some teacher support.	<ul> <li>■ Represents the story using pictures, numbers, or symbols that are incorrectly related to the story (e.g., 9 + 1 = 8 or showing 9 pencils with one more added).</li> <li>■ Orally answers the questions being asked, counts all the cubes when asked the questions, and writes incorrect numbers in the blanks of the subtraction sentence (e.g., 8 - 1 = 9).</li> <li>■ Breaks off a different number of cubes and records work with an equation but may get numbers mixed up in the equation.</li> </ul>	The student correctly:  Represents and records 9 – 1 = 8 clearly using a drawing and/or equation.  Orally answers the questions being asked and writes numbers in the blanks of the subtraction sentence that represent what happened with the cubes.  Breaks off a different number of cubes and records work with an equation.
K.OA.1 K.OA.2 K.OA.4	The student shows little evidence of understanding zero, 1 more, and the relationship between numbers and addition and subtraction. He is unable to complete most of the tasks.	The student:  Counts one-to-one incorrectly or is confused about zero.  Adds more than 1 or takes cubes off the stick, and is confused about how many cubes after adding, stating an incorrect number of cubes.	The student:  Counts 5 cubes correctly but has some confusion about zero.  Answers 6 and 7 as she puts 1 more cube on the 5-stick (must count all of the cubes every time).  Selects the correct equation for only	<ul> <li>Counts 5 cubes and answers 5 to each of the questions about zero.</li> <li>Answers 6 and 7 as she puts 1 more cube on the 5-stick</li> <li>Selects the correct equation for both parts of the story: 5 + 3 = 8 and 8 - 3 = 5.</li> </ul>







A Progression Toward Mastery							
<ul> <li>Selects incorrect equations and is clearly guessing.</li> <li>May answer 1 orally but is unable to write a related equation.</li> <li>Draws 7 dots but not in a 5-group, or draws a different number of dots, and provides the wrong answer, and/or has difficulty writing the equation.</li> </ul>	<ul> <li>one part of the story.</li> <li>Answers 1 but may write the numbers or symbols incorrectly.</li> <li>Correctly draws 7 dots in a 5-group pattern or answers 3 orally and writes 7 + 3 = 10, but may have some difficulty with the drawing or writing the equation.</li> </ul>	<ul> <li>Answers 1 and writes 9 + 1 = 10.</li> <li>Correctly draws 7 dots in a 5-group pattern, and answers 3 orally and writes 7 + 3 = 10.</li> </ul>					





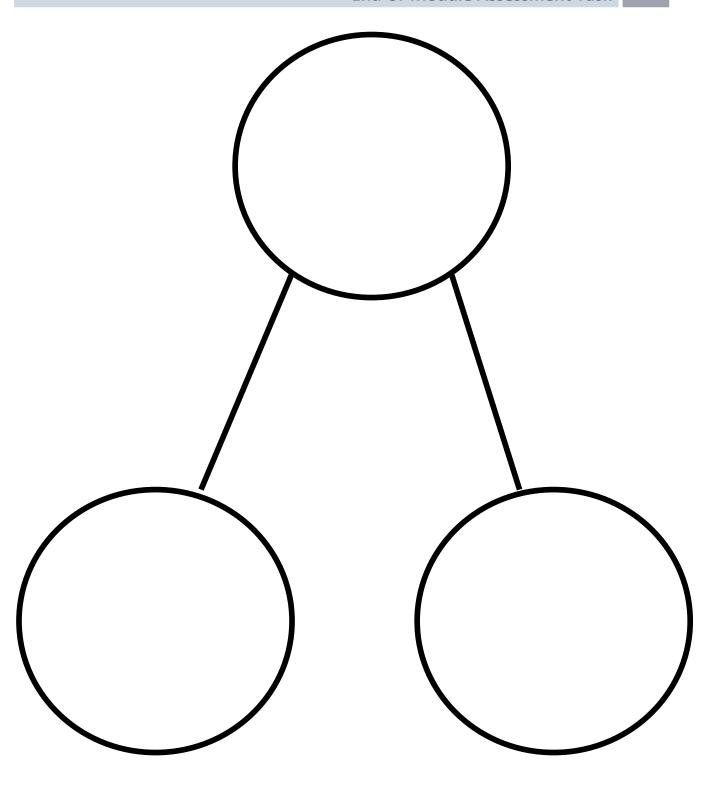
	Class Record Sheet of Rubric Scores: Module 4					
Student Names:	Topic E: Decompositions of 9 and 10 into Number Pairs	<b>Topic F:</b> Addition with Totals of 9 and 10	<b>Topic G:</b> Subtraction from 9 and 10	<b>Topic H:</b> Patterns with Adding 0 and 1 and Making 10	Next Steps:	

Number Pairs, Addition and Subtraction to 10



Module 4:

11/14/14



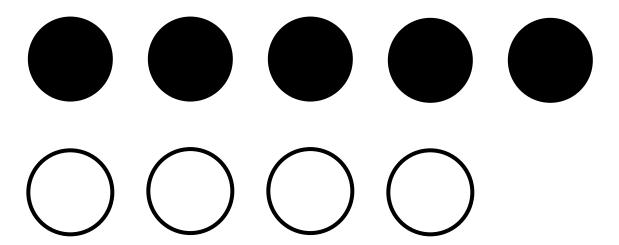
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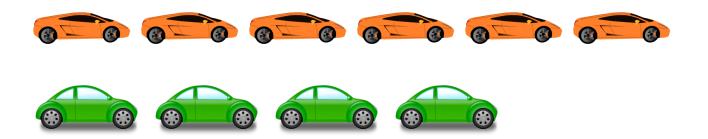
Module 4: Date:



# Template 1



# Template 2





Module 4: Date:



## Template 3





## Template 4

$$5 + 3 = 8$$

$$8 - 3 = 5$$

$$5 - 3 = 2$$



Module 4: Date:

