Fruit Smoothie Combinations

	Exceeds	Meets	Aproaches	Does Not Meet	Score/Level
The completed/correct array chart with all 10 possible combinations using 5 different fruits.	The student clearly creates an array chart which successfully displays the data with all fruit ingredients. The student includes all 10 combinations in the array chart.	The student creates an array chart which successfully displays the data with all fruit ingredients. The student includes all 8 of the 10 combinations in the array chart.	The student creates an array chart which successfully displays the data with all fruit ingredients. The student includes all 6 of the 10 combinations in the array chart.	The student does not create an array chart.	
	Standards **AZ- Common Core State Standards (2012)** **Subject:** Mathematics **Grade:** Grade 4 **Domain:** Operations and Algebraic Thinking 4.OA **Area:** Use the four operations with whole numbers to solve problems. **Standard:** AZ.4.OA.3.1. Solve a variety of problems based on the multiplication principle of counting. AZ.4.OA.3.1.a. Represent a variety of counting problems using arrays, charts, and systematic lists, e.g., tree diagram. AZ.4.OA.3.1.b. Analyze relationships among representations and make connections to the multiplication principle of counting.				
Create 10 new 2-color combinations from a choice of 5 colors.	The student clearly creates an array chart which successfully displays the data with color combinations. The student includes all 10 combinations in the array chart.	The student creates an array chart which successfully displays the data with color combinations. The student includes 8 of the 10 combinations in the array chart.	The student creates an array chart which successfully displays the data with color combinations. The student includes 6 of the 10 combinations in the array chart.	The student does not create an array chart.	
	Standards **AZ- Common Core State Standards (2012)** **Subject:** Mathematics **Grade:** Grade 4 **Domain:** Operations and Algebraic Thinking 4.OA **Area:** Use the four operations with whole numbers to solve problems. **Standard:** AZ.4.OA.3.1. Solve a variety of problems based on the multiplication principle of counting. AZ.4.OA.3.1.a. Represent a variety of counting problems using arrays, charts, and systematic lists, e.g., tree diagram. AZ.4.OA.3.1.b. Analyze relationships among representations and make connections to the multiplication principle of counting.				