Everyday Arrays
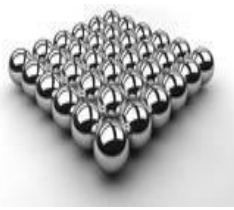
DAY 1

	Objective: I can find arrays in the real world. Students Rate Themselves to the Goal: 1, 2, 3, 4 3.OA.3 Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays and measurement quantities	Setting Objectives & Providing Feedback
G **Engage Students with the Goal**		
A **Access Prior Knowledge**	Real world arrays should be visible around the room. (Use the pictures above or others you may find.) Students should turn and talk to compare the various arrays.	Nonlinguistic Representations Identifying Similarities & Differences Cooperative Learning
N **New Information**	What is an array? An array is a way to place things in an organized order that has rows and columns. Have a class discussion regarding the similarities & differences the students noticed in the arrays around the classroom making sure to discuss the number of rows and columns.	Nonlinguistic Representations Identifying Similarities & Differences Cooperative Learning Cues, Questions, & Advance Organizers
A **Application**	Present students with the take home task: • Search for 5 arrays in your home, your neighborhood, and/or places you have been (grocery store, library, baseball game, football game, soccer game, etc). • Record each array & explain where you saw it	Nonlinguistic Representations Practice & Homework
G **Revisit the Goal**	Objective: I can find arrays in the real world. Students Rate Themselves to the Goal: 1, 2, 3, 4	Setting Objectives & Providing Feedback

DAY 2

G **Engage Students with the Goal**	Objective: Using an array, I can develop addition, multiplication, and division number sentences and word problems. Students Rate Themselves to the Goal: 1, 2, 3, 4 3.OA.3 Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays and measurement quantities	Setting Objectives & Providing Feedback
A **Access Prior Knowledge**	The students should display their 5 arrays around the room and/or utilize the document camera. Possible Discussion Question: • Did you see a variety of displays with different numbers of rows and columns?	Nonlinguistic Representations Identifying Similarities & Differences Cooperative Learning Cues, Questions, & Advance Organizers
N **New Information**	The focus today is to write number sentences and word problems to match the various arrays. While at the grocery store last night, I saw this array of cereal boxes. • How can I write this array as an addition number sentence? 4+4+4+4=16 • How can I write this array as a multiplication number sentence? 4X4=16 • How can I write this array as a division number sentence? 16÷4=4 • Can we create a word problem to go with this array? Example: Mr. Garrett works at Wal-Mart. He was given 16 cereal boxes. He was asked to create an array to display the cereal boxes. What are two different arrays that could be used to display the 16 cereal boxes?	Nonlinguistic Representations Identifying Similarities & Differences Cooperative Learning Cues, Questions, & Advance Organizers
A **Application**	Working in groups, students can write number sentences and word problems to go with the various arrays that were discovered in the students' homework.	Cooperative Learning
G **Revisit the Goal**	Objective: Using an array, I can develop addition, multiplication, and division number sentences and word problems. Students Rate Themselves to the Goal: 1, 2, 3, 4	Setting Objectives & Providing Feedback