Lesson Plan July 16th, 2019

Array Models in Multiplication

Third Grade Math 25 minutes Standard: 3.OA.A.1

Key Learning Objectives

Students will be able to understand the basic concept of multiplication and solve multiplication equations using array models. Students will interpret products of whole numbers, e.g. 5x7 as the whole number of objects in 5 groups of 7 objects each.

Introduction

* Explain what an array is and what it’s used for.
* Give an example of a multiplication word problem that can be solved using array models.
* Garden example.

Teacher Modeling

* Count out 5 rows of 4 cubes and show them to class.
* Ask students to identify how many rows, along with how many cubes in each row.
* Question students on total
* Multiplying rows by columns is the quickest way to find the answer. (5x4) = 20.

Guided Practice

* All together on whiteboards
* 2x3
* Discuss process

1. What multiplication equation can I write for this array?
2. How do you know?
3. What is the product of 2x3?

* Two more examples:
* 3x3
* 4x3

Break into Tiered Groups

* Tier 1- Individual or with group
* Tier 2- With group
* Tier 3- With me
* Each group should use blocks to make array, draw array on worksheet, then solve equation and find the product.

\*\*Extra worksheet if students finish early\*\*

Assessment

* Draw an array of hearts showing 6x3 on the board. Students must write and solve the equation.

Review and Closing

* Tell students to turn and talk with their partner about the following:
* “How can we use arrays to solve multiplication problems?
* “Why is it important to know how to multiply?”
* “When might you use this skill in the real world?”

Summative Assessment at end of unit- Test