

MULTIPLICATION LESSON PLANS

MULTIPLICATION: ARRAYS

Lesson plan DAY 2

Objective	Vocabulary	Materials
Students will identify and represent multiplication fact using arrays.	<ul style="list-style-type: none"> Array Product Factor Grid 	<ul style="list-style-type: none"> Unit square grid paper Graph paper Grids Sticks
Concrete Students use manipulatives to build or create a physical model of the math problem.	Representational Students draw a picture or representation model of the math problem.	Abstract Students use an algorithm or only numbers to solve.



Grandma made cookies. She placed a 4x6 array with green cookies.
How many cookies did she make?



Grandma made 24 cookies
 $4 \times 6 = 24$

WARM-UP
10 minutes

WHOLE GROUP
10 minutes

POPcorn facts - Explain to students that they will be counting multiples of 2 about while "blasting and popping" their kernels. When a multiple of 2 is called, students will POP up as they say the multiple of 2, and then return to a small kernel. (Example: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, etc.)

- Students count multiples of 2 - POP with multiples of 100
- Students count multiples of 5 - POP with multiples of 50

Arrays, the multiplication symbol "x" and the student's what can be said instead of "times" Review items of the "Grids of 5" they learned in the last lesson. Draw a model of 3 rows of 5 and ask them what they notice. Explain that the multiplication symbol can also mean "times" or "times times" the original row, row, and column.

Give each student a piece of the multiplication array graphing paper and make instructions. Have students build the array for each multiplication fact after saying "times" or instead of "times" (3 x 4, "3 times of 4").

After building the array with counters, have students color the grid to show the same model and write the product. Then, students can turn the paper sideways to see the related fact, using the row they see and counting the items in each row. A hand copy is included for teachers to abbreviate lesson.

Give each student a copy of the "Arrays of Times" worksheet. Students will use and glue to match the multiplication fact to the correct array. Then, students will find the product and fill in the blank.

Grade 3 Multiplication Lesson Plans

Victor M. Corman



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