

UNIT 5: FOUNDATIONS OF MULTIPLICATION & DIVISION

at a glance

Day 1 Even and Odd	Day 2 Modeling Even Numbers	Day 3 Modeling Even Numbers and Equations	Day 4 Arrays	Day 5 Arrays with Equations
Day 6 Partitioning Rectangles	Day 7 Partitioning Rectangles with Equations	Day 8 Arrays and Area Models	Day 9 Review	Day 10 Assessment

THIS UNIT COVERS THE FOLLOWING COMMON CORE MATH STANDARDS: 2.OA.3, 2.OA.4, & 2.GA.2

Notes:

Easily see your whole week at a glance
with the unit pacing guide.



5.8 ARRAYS

I CAN STATEMENT
I can make arrays and area models to represent numbers.

Spend the First Few minutes of the lesson. These slides allow students to practice skip counting.

5.7 MEET THE TEACHER

MATERIALS FOR TEACHER: journal pages for teaching, glue, pencil

MATERIALS FOR STUDENTS: journals, scissors, glue

APPROACHING
Model how to quickly cut and glue the pages that they will use.

ON TRACK
Complete the problem-solving journal pages.

5.7 PARTITIONING RECTANGLES

I CAN STATEMENT
I can partition rectangles and write equations to represent the rectangle.

MATERIALS
5.7 PowerPoint
5.7 printouts

VOCABULARY
rows
columns

5.5 ARRAYS

I CAN STATEMENT
I can model numbers with arrays and write equations to represent the models.

MATERIALS
5.5 PowerPoint
5.5 printouts
array anchor chart

VOCABULARY
even
odd
array
row
column

MINI LESSON

Spend the first few minutes of the lesson completing the fact fluency slides. These slides allow students to practice subtraction fluency with a focus on place value.

Using the PPT, complete the warm-up with students. The warm-up is a review of skip counting.

Using the PPT, review the following vocabulary terms: even, odd, array, row, and column. Tell the students that today we are going to continue practicing making arrays, but we are also going to write equations that represent the arrays.

Model how to make an array with 3 rows and 4 columns. Then, model how to group the rows to write a repeated addition equation. Tell the students that the equation should match the array. We can check by counting all the dots in the array and the sum in our equation.

INTERVENTION

Allow students to reference the array anchor chart if they are struggling to remember rows and columns.

EXTENSION

Have students complete the Level Up For more challenging problems involving arrays and even and odd numbers.

WRAP UP

UNIT 5: FOUNDATIONS OF MULTIPLICATION

Day 1 Even and Odd	Day 2 Modeling Even Numbers	Day 3 Modeling Number Equations
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WARM UP WITH SKIP COUNTING

Day 6 Partitioning Rectangles	Day 7 Partitioning Rectangles with Equations	Day 8 Arrays and Multiplication
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THIS UNIT COVERS THE FOLLOWING COMMON CORE MATH STANDARDS: 2.OA.A.1-2

Notes:

5.4 MEET THE TEACHER

MATERIALS FOR TEACHER: whiteboard

EVEN AND ODD

MATERIALS
5.4 PowerPoint
5.4 printouts

VOCABULARY
even
odd

MINI LESSON

Lesson completing the fact fluency slides. subtraction fluency with a focus on place value.

students. The warm-up is a review of skip counting.

is even and odd. Tell the students to practice skip counting.

iven number. Then, model how to write an equation that represents the number.

EXTENSION

we need to know if a number is even or odd.



Includes whole group and differentiated small group lesson plans with activities.

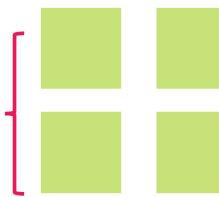
Arrays & Area Models

Make an array that has 3 columns and 2

Arrays & Area Models

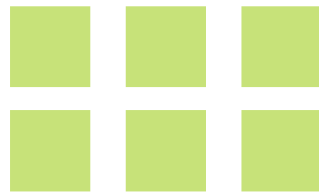
Make an array that has 3 columns and 2

2 rows



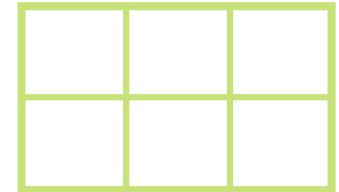
Arrays & Area Models

Use the rectangle to make an area model
with 3 columns



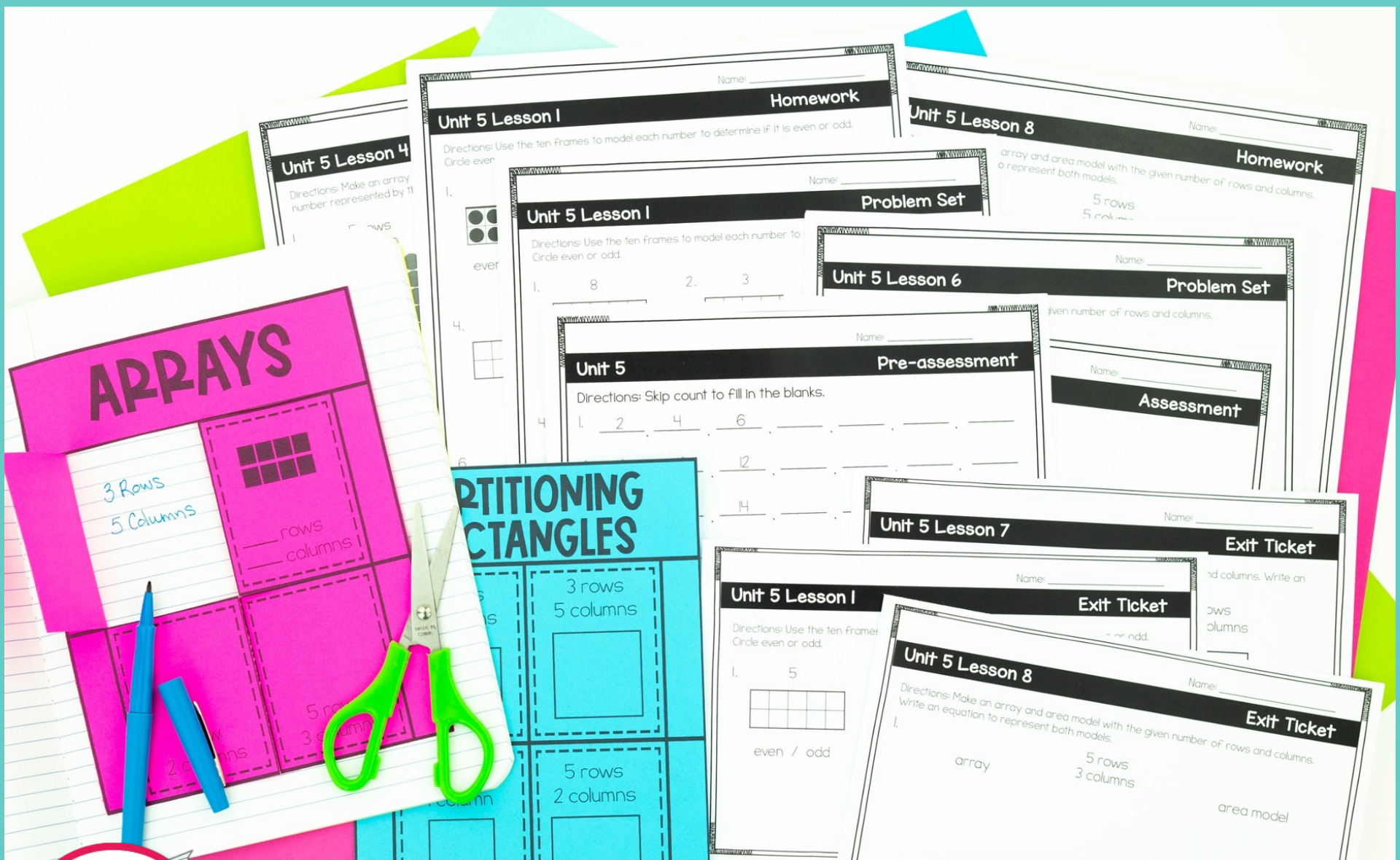
Arrays & Area Models

Both models show 6. Both have 2 rows
and 3 columns. We can write an equation
that represents both models.



Deliver great lessons with step-by-step
PowerPoints for teaching math skills.





Includes problem sets, homework, and exit tickets for each day.

Unit 5

Directions: Skip count to fill in the blanks.

1. 2 , 4 , 6 , ,

2. 8 , 10 , 12 , ,

3. 10 , 12 , 14 , ,

4. 6 , 8 , 10 , ,

Unit 5

1. Write the odd numbers from 1-20.

2. Write the even numbers from 1-20.

Name: _____

Unit 5 **Assessment**

Directions: Make an array with the given number of rows and columns. Write an addition equation that represents the array.

8. 3 rows
5 columns

9. 2 rows
4 columns

Directions: Count to find the total.

5. **Unit 5**

Directions: Skip count to fill in the blanks.

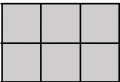
1. 2 , 4 , ,

2. 8 , 10 , ,

3. 10 , 12 , ,

4. 6 , 8 , ,

Directions: Count to find the total.

5. 


Skill	Even and Odd	Equal Addends with Even Numbers	Arrays	Area Models	Drawing Models	
Student	1-3	4-7	8-11	12-15	16	TOTAL
	___ / 3	___ / 4	___ / 4	___ / 4	___ / 1	___ / 16
	___ / 3	___ / 4	___ / 4	___ / 4	___ / 1	___ / 16
	___ / 3	___ / 4	___ / 4	___ / 4	___ / 1	___ / 16
	___ / 3	___ / 4	___ / 4	___ / 4	___ / 1	___ / 16
	___ / 3	___ / 4	___ / 4	___ / 4	___ / 1	___ / 16
	___ / 3	___ / 4	___ / 4	___ / 4	___ / 1	___ / 16
	___ / 3	___ / 4	___ / 4	___ / 4	___ / 1	___ / 16
	___ / 3	___ / 4	___ / 4	___ / 4	___ / 1	___ / 16
	___ / 3	___ / 4	___ / 4	___ / 4	___ / 1	___ / 16
	___ / 3	___ / 4	___ / 4	___ / 4	___ / 1	___ / 16
	___ / 3	___ / 4	___ / 4	___ / 4	___ / 1	___ / 16
	___ / 3	___ / 4	___ / 4	___ / 4	___ / 1	___ / 16
	___ / 3	___ / 4	___ / 4	___ / 4	___ / 1	___ / 16
	___ / 3	___ / 4	___ / 4	___ / 4	___ / 1	___ / 16

Name: _____

Assessment Answer Key


8 rows and columns. Write an addition equation that represents the array.

2 rows
4 columns



$4 + 4 = 8$

4 rows
4 columns



$4 + 4 + 4 + 4 = 16$



Track student progress with pre- & post-assessments and recording sheet.

SKIP COUNTING

3 fives

EVEN

numbers that

ROW

read from



EVEN & ODD

EVEN

Rectangles

ODD

numbers that CANNOT be split into

SKIP COUNTING

3, 6, 9, 12
15, 18, 21, 24

ARRAYS

Items arranged into rows and columns.

5 columns

3 rows



= 15 in all

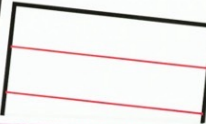
AREA MODELS

3 rows
5 columns



STEP 1:

Partition into 3 rows.



STEP 2:

Partition into 5 columns.



STEP 3:

Count the squares.
15

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15

COLUMN

items arrange down

ARRAYS

arranging items into rows

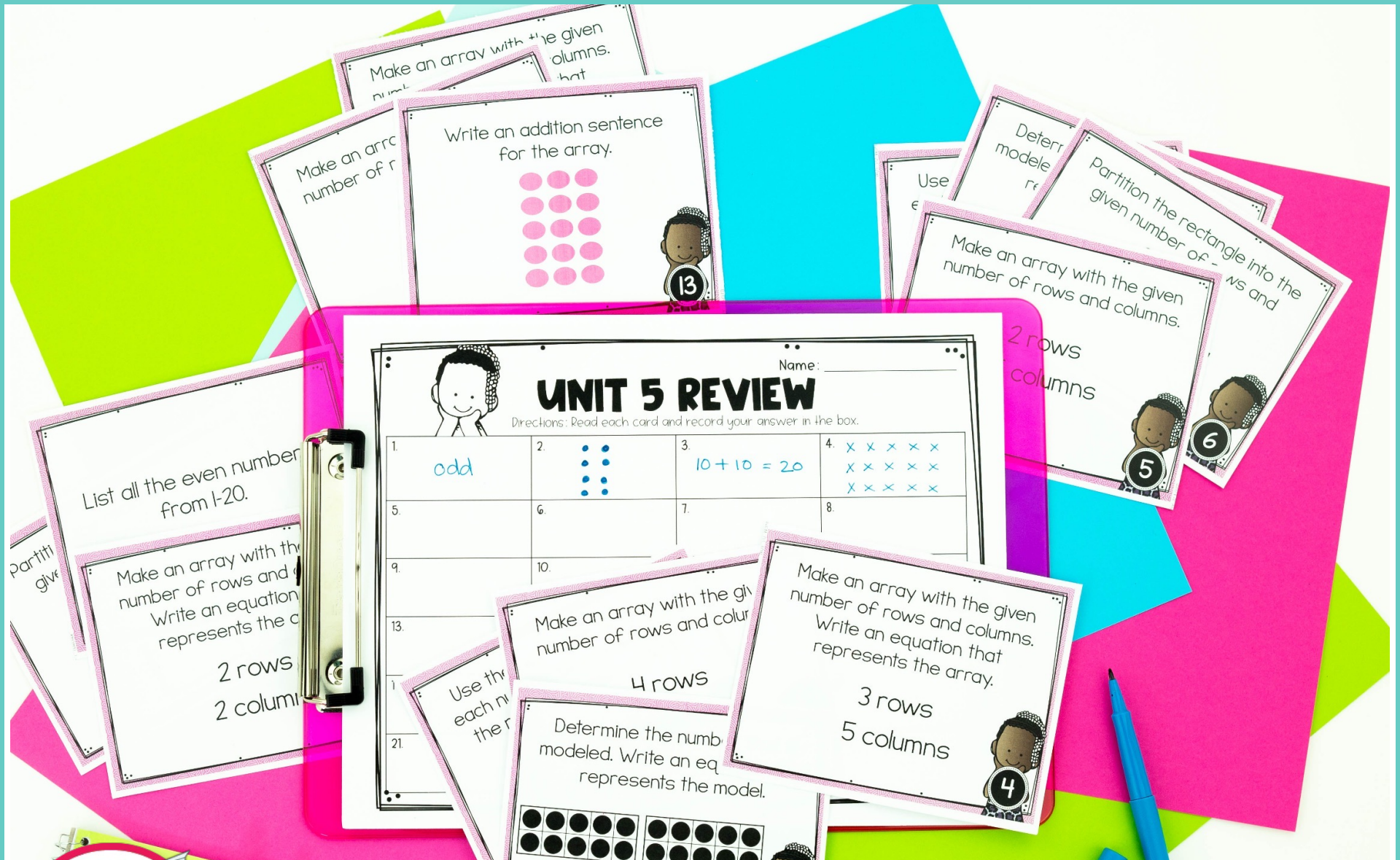


Cement learned skills with the included vocabulary cards, anchor charts, and tools.



Keep students engaged and excited to practice with board games and task cards.





Teach with confidence; each day is fully planned for you with all the tools you need!