



Marietta City Schools District Topic Planner

Second Grade

Topic Title	Topic 2: Work with Equal Groups	Unit duration	10 days
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Big Idea: Operations and Algebraic Thinking - Equal Groups

[Georgia Standards of Excellence](#)

- 2.OA.3** Determine whether a group of objects (up to 20) has an odd or even number of members, e.g., by pairing objects or counting them by 2s; write an equation to express an even number as a sum of two equal addends. (Additional instructional resources may be required)
- 2.OA.4** Use addition to find the total number of objects arranged in rectangular arrays with up to 5 rows and up to 5 columns; write an equation to express the total as a sum of equal addends.

Major work of the grade
 Supporting standard
 Additional standard

Informational Links

- [GSE Unit 6 Frameworks: Developing Multiplication](#)
- [MCS Math Instructional Framework](#)
- [MCS Math Instructional Framework with Resource Guidance](#)

About the Math

- [GaDOE: Grade 2 Standards Overview Document](#)
- [GaDOE: What Do Standards Look Like in Second Grade?](#)

Topic 2: Learning Resources

2.OA.3, 2.OA.4

Lesson Number/Task/Module	Lesson	Lesson Description	Standards Addressed
Savvas 2-1	Even and Odd Numbers Savvas pp. 61 - 64	Students identify which numbers to 20 can be shown as two equal groups.	2.OA.3

Supplemental 2-1	Odd and Even Towers MIP Module 3 pp. 77-78	Students are provided meaningful practice to extend understanding of even and odd numbers.	2.OA.3
Savvas 2-2	Continue Even and Odd Numbers Savvas pp. 65 - 68	Students are asked to use cubes to determine the number of class members if the class can form pairs plus one student	2.OA.3
Supplemental 2-2	Scoops of Cubes MIP Module 3 p. 78	Students use cubes to determine pairs and determine if there are any leftovers.	2.OA.3
Savvas 2-3	Use Arrays to Find Totals Savvas pp. 69 - 72	Students show and explain two different ways to find a total	2.OA.3 2.OA.4
Supplemental 2-3	Sticky Note Arrays MIP Module 3 pp. 80-81	Students build a foundation with multiplication with investigations where they see repeated addition through arrays.	2.OA.3 2.OA.4
Savvas 2-4	Make Arrays to Find Totals Savvas pp. 73 - 76	Students solve a word problem by using counters and writing an equation.	2.OA.3 2.OA.4
Supplemental 2-4	Making Arrays MIP Module 3 pp. 81-82	Students make arrays with square tiles and record the repeated addition sequence.	2.OA.3 2.OA.4

Additional Resources

2.OA.3, 2.OA.4

Standards Addressed	Lesson	Lesson Description
2.OA.3	Two of Everything Ga DOE Practice Task	Students continue to develop and apply the concept of equal addends to the mathematical problem-solving opportunities.
2.OA.3 2.OA.4	Cookie Monster Ga DOE Constructing Task	Apply understanding of odd and even numbers to begin understanding arrays through exploration with manipulatives.
2.OA.4	Cereal Arrays Ga DOE Practice Task	Use manipulatives to create arrays to develop an understanding of the relationship between repeated addition and arrays.
2.OA.3 2.OA.4	Seating the Class Ga DOE Constructing Task	In this task, students will apply a growing understanding of arrays as they suggest an array for seating a class and explain their reasoning.

Assessment Resources**2.OA.3, 2.OA.4**

Type	Location	Assessment Description	Standards Addressed
Formative	MCS Mini	Students determine if numbers are odd or even.	2.OA.3
Formative	MCS Mini	Students determine if a group of objects is odd or even.	2.OA.3
Formative	MCS Mini	Students determine if the two addends will make a number even.	2.OA.3
Formative	MCS Mini	Students identify even numbers and then identify the two addends that make the number even.	2.OA.3
Formative	MIP Module 3 p. 76	Students determine if four numbers are odd or even and justify their answer.	2.OA.3
Formative	MIP Module 3 p. 82	Students use repeated addition to write an equation matching a given array.	2.OA.4
Summative	Savvas Topic Assessment TE pp. 85-86	Students use models and strategies to determine if numbers are odd or even. Students use repeated addition and equal groups to build the foundation of multiplication. Digital and print forms available through Savvas platform.	2.OA.3 2.OA.4
Summative	Savvas Topic Performance Task TE pp. 87-88	Students use a real-life scenario involving drawings at an art show to determine odd/even and equal groups.	2.OA.3 2.OA.4