



Marietta City Schools District Topic Planner

Second Grade

Topic Title	<i>Topic 1: Fluently Add and Subtract Within 20</i>	Unit duration	<i>14 days</i>
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Big Idea: Operations and Algebraic Thinking - Addition and Subtraction

[Georgia Standards of Excellence](#)

■ **2.OA.1** Use addition and subtraction within 100 to solve one- and two-step word problems by using drawings and equations with a symbol for the unknown number to represent the problem. Problems include contexts that involve adding to, taking from, putting together/taking apart (part/part/whole) and comparing with unknowns in all positions.

■ **2.OA.2** Fluently add and subtract within 20 using mental strategies.*By the end of Grade 2, know from memory all sums of two one-digit numbers.

■ **Major work of the grade** □ **Supporting standard** ● **Additional standard**

Informational Links

[GSE Unit 2 Frameworks: Becoming Fluent with Addition and Subtraction](#)

[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 1: Learning Resources

2.OA.1, 2.OA.2

Lesson Number/Task/Module	Lesson	Lesson Description	Standards Addressed
Savvas 1-1	Addition Fact Strategies Savvas pp. 5-8	Students add the same two addends in different orders	2.OA.2

Supplemental 1-1	Windmill Facts Savvas p. 8A	Students use two different color connecting cubes to represent the two addends in an equation. When they turn the “blade” on the windmill to reverse the order, students make the connection that order does not impact the sum.	2.OA.2
Supplemental 1-1	Exploring Commutative Property with Manipulatives Mastering Basic Math Facts Add/Sub pp. 40-41	Students explain their thinking after working with equations that build understanding of the commutative property.	2.OA.2
Savvas 1-2	Doubles and Near Doubles Savvas pp. 9-12	Students are asked to use counters to show a doubles fact, and then a near doubles fact.	2.OA.2
Supplemental 1-2	Understanding Using Doubles Mastering Basic Math Facts Add/Sub pp. 129-131	Literature Connection. Doubles plus one strategy is explored. Students may use counters to show a doubles fact, and then a near doubles fact, then explain.	2.OA.2
Supplemental 1-2	Breaking Chains MIP Module 2 pp. 57-58	Students build chains and split them as close to half as possible. They record equations to show them. Students then observe to see the connection to doubles facts.	2.OA.2
Savvas 1-3	Making a 10 to Add Savvas pp. 13-16	Students are asked to find $9+3$ while thinking about 10. They can use a ten-frame and counters to show their work.	2.OA.2
Supplemental 1-3	Double Ten Frame Addition MIP Module 2 p. 48	Students use double ten frames to visualize the strategy of using ten by moving counters to fill one frame.	2.OA.2
Savvas 1-4	Addition Fact Patterns Savvas pp. 17-20	Students use an addition fact table showing sums to 10 to look for and describe addition number patterns.	2.OA.2
Savvas 1-5	Count On and Back to Subtract Savvas pp. 21-24	Students demonstrate how to use a number line to count to solve a subtraction problem.	2.OA.2
Supplemental 1-5	Hop the Line Mastering Basic Math Facts	Students demonstrate how to use a number line to count to solve a subtraction problem.	2.OA.2

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Supplemental 1-5	Count on Connecting Cubes Savvas p. 24A	Students create a number line with connecting cubes. Students practice counting on to subtract.	2.OA.2
Supplemental 1-5	Using Number Lines to Solve Problems MIP Module 1 p. 25	Students explore number lines to solve math problems.	2.OA.2
Savvas 1-6	Think Addition to Subtract Savvas pp. 25-28	Students use reasoning to analyze the relationship between addition and subtraction.	2.OA.2
Supplemental 1-6	Fact Family Homes Mastering Basic Math Facts Add/Sub pp. 61-62	Students create fact family homes to make the connection between addition and subtraction. Build in concrete opportunities with counters to build conceptual understanding.	2.OA.2
Savvas 1-7	Make a 10 to Subtract Savvas pp. 29-32	Students explain how they can use 10 to help solve a subtraction fact.	2.OA.2
Supplemental 1-7	Double Ten Frame Addition MIP Module 2 p. 48	Students use double ten frames to visualize the strategy of using ten by moving counters to fill one frame with addition. Making ten strategy can then be applied to subtraction.	2.OA.2
Supplemental 1-7	Using Ten MIP Module 2 pp. 42-43	Students explain how they can use 10 to help solve a subtraction fact.	2.OA.2
Savvas 1-8	Practice Addition and Subtraction Facts Savvas pp. 33-36	Students apply their number sense and knowledge of operations to write the related facts	2.OA.2
Savvas 1-9	Solve Addition and Subtraction Word Problems Savvas pp. 37-40	Students are asked to make sense of the problems by analyzing the relationships between numbers	2.OA.1 2.OA.2

Additional Resources		
2.OA.1, 2.OA.2		
Standards Addressed	Lesson	Lesson Description
2.OA.1 2.NBT.5	Take 100 Ga DOE Practice Task	Students will develop mental math strategies in a game setting.
2.OA.1 2.NBT.5	Roll Away Ga DOE Practice Task	Students will practice estimation skills in a game using dice.

Assessment Resources			
2.OA.1, 2.OA.2			
Type	Location	Assessment Description	Standards Addressed
Formative	MCS Mini	Students determine a combined total of seeds using addition of two-digit numbers.	2.OA.1
Formative	MCS Mini	Students determine missing addend to determine how many students board the bus at the second stop. Students provide an equation and show their work in the space provided.	2.OA.1
Formative	MCS Mini	Students demonstrate knowledge of addition strategies when solving using 10 frames and decomposing numbers.	2.OA.2
Formative	MIP Module 2 p. 52	Students explain how making tens can help with addition.	2.OA.1 2.OA.2
Formative	MIP Module 2 p. 58	Students explain how using doubles facts can help with addition.	2.OA.1 2.OA.2
Formative	MIP Module 2 pp. 60 - 61	Students explain how knowing addition facts can help with subtraction.	2.OA.1 2.OA.2
Summative	Savvas Topic Assessment TE pp. 51-52	Students use a variety of strategies to fluently add and subtract within 20. Digital and print form available through Savvas platform.	2.OA.1 2.OA.2
Summative	Savvas Topic Performance Task TE pp. 55-56	Students use a real-life scenario involving stuffed animals to add and subtract within 20.	2.OA.1 2.OA.2