

# MP2a-Fluently Add Within 100

Content Area: **Mathematics**  
Course(s): **Math 2**  
Time Period: **Marking Period 2**  
Length: **MP2 Topic 4 4-1 to 4-9**  
Status: **Published**

## Essential Questions

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- What are strategies for adding numbers to 100?

## Big Ideas

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- **Add and Subtract on a Hundreds Chart:** Students will see regularity in the structure of the number system when they add on the hundred chart and subtract on a hundred chart.
- **Add and Subtract on an Open Number Line:** Students will use an open number line and the strategy of counting on to add.
- **Compose and Decompose Numbers to Add and Subtract:** Students will learn to break apart numbers to subtract.
- **Partial Sums Method:** Students will employ the partial sums method for adding within 100.
- **Foundations for the Standard Algorithms:** Students will use place-value blocks and place-value mats to demonstrate and explain regrouping, and 2-digit place-value frames to record the steps.
- **Properties and Relationships:** Students will add three or more 2-digit numbers.
- **One- and Two-Step Problems:** Students will solve one0 and two-step word problems involving addition and subtraction.

## Technology Integration

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8.1.2.AP.2: Model the way programs store and manipulate data by using number or other symbols to represent information.

Activity:

Students will use different addition apps on the chromebooks during Math Work rotations. They will then discuss which digital application helped them build stronger addition strategies.

## **Enduring Understandings**

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### **Operations and Algebraic Thinking**

**2.OA.A.1** Use addition and subtraction within 100 to solve one- and two-step word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.

### **Number and Operations in Base Ten**

**2.NBT.B.5** Fluently add and subtract within 100 using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction.

**2.NBT.B.6** Add up to four two-digit numbers using strategies based on place value and properties of operations.

**2.NBT.B.9** Explain why addition and subtraction strategies work, using place value and the properties of operations.

## **Mathematical Practices Focus**

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4. Model with mathematics.