Unit 2a-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

- What are strategies for adding numbers to 100?

Big Ideas

- **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.

CSDT Technology Integration

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

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.

Students may make sense of the ideas that plants need water and light to grow and that climate change affects the health of plants, animals, and people. In this unit, there would be an opportunity to measure variables and use the date to add and subtract within 100.

Number and Operations in Base Ten

2.NBT.B.5 With accuracy and efficiency 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

4. Model with mathematics.