Unit 3d-Subtract Within 1,000 Using Models and Strategies

Content Area: **Mathematics**
Course(s): **Math 2**
Time Period: **Marking Period 3**
Length: **MP3 Topic 11 11-1 to 11-6**
Status: **Published**

Essential Questions

- What are different strategies for subtracting 3-digit numbers?

Big Ideas

- **Mental Math:** Students will subtract numbers mentally by recognizing patterns in the tens and hundreds digits of the sums.
- **Visual Models**: Students will use models broken down by place value to subtract 3-digit numbers.
- **Subtracting using an Open Number Line:** Students will use open number lines to count back to subtract 3-digit numbers. Students will also use number lines to "add up" to subtract, relating subtraction to addition.
- **Explaining Subtraction Strategies:** Students can use the standard subtraction algorithm and other subtraction strategies to subtract 3-digit numbers. Students will use place value and properties of operations to explain which strategy works best in a specific problem.

CSDT Technology Integration

8.1.2.AP.1: Model daily processes by creating and following algorithms to complete tasks.

Activity:
Students will use the Digital Math Tools and Activities in the Envision Kit. All students will use their chromebooks to practice subtracting three-digit numbers and recording their answers.

Enduring Understandings

Numbers and Operations in Base Ten

2.NBT.A.1 Understand that the three digits of a three-digit number represent amounts of hundreds, tens, and ones; e.g., 706 equals 7 hundreds, 0 tens, and 6 ones.

2.NBT.B.7. (M) Add and subtract within 1000, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method. Understand that in adding or subtracting three-digit numbers, one adds or subtracts hundreds and hundreds, tens and tens, ones and ones; and sometimes it is necessary to compose or decompose tens or hundreds.

2.NBT.B.8. (M) Mentally add 10 or 100 to a given number 100–900, and mentally subtract 10 or 100 from a given number 100–900.

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

Mathematical Practices Focus

1. Make sense of problems and persevere in solving them.