Chapter 6 3-Digit Addition and Subtraction

Content Area: **Mathematics**
Course(s): **Math 2**
Time Period: **February**
Length: **19 Days**
Status: **Published**

Unit Summary

In this unit the students will use strategies for adding and subtracting 3-digit numbers.

Standards

MA.2.NBT.B.7	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.
MA.2.NBT.B.9	Explain why addition and subtraction strategies work, using place value and the properties of operations.
CRP.K-12.CRP2	Apply appropriate academic and technical skills.
CRP.K-12.CRP2.1	Career-ready individuals readily access and use the knowledge and skills acquired through experience and education to be more productive. They make connections between abstract concepts with real-world applications, and they make correct insights about when it is appropriate to apply the use of an academic skill in a workplace situation.
TECH.8.1.2.A.CS1	Understand and use technology systems.
TECH.8.1.2.A.CS2	Select and use applications effectively and productively.

Student Learning Objectives

Students will learn to...

- Draw quick pictures to represent 3-digit addition.
- Apply place value concepts when using a break apart strategy for 3-digit addition.
- Record 3-digit addition using the standard algorithm with possible regrouping of ones.
- Record 3-digit addition using the standard algorithm with possible regrouping of tens.
- Record 3-digit addition using the standard algorithm with possible regrouping of both ones and tens.
- Solve problems involving 3-digit subtraction by using the strategy make a model.
- Record 3-digit subtraction using the standard algorithm with possible regrouping of tens.
- Record 3-digit subtraction using the standard algorithm with possible regrouping of hundreds.
- Record 3-digit subtraction using the standard algorithm with possible regrouping of both hundreds and tens.
- Record subtraction using the standard algorithm when there are zeros in the minuend.

Essential Questions

- What are some strategies for adding and subtracting 3-digit numbers?
- How do you draw quick pictures to show adding 3-digit numbers?
- How do you break apart addends to add hundreds, tens, and then ones?
- When do you regroup ones in addition?
- When do you regroup tens in addition?
- How do you know when to regroup in addition?
- How can making a model help when solving subtraction problems?
- When do you regroup tens in subtraction?
- When do you regroup hundreds in subtraction?
- How do you know when to regroup in subtraction?
- When do you regroup tens in subtraction?
- When do you regroup hundreds in subtraction?
- How do you know when to regroup in subtraction?

Enduring Understandings

Students will understand that ...

- there are strategies for adding and subtracting 3-digit numbers.

Application

Students will be able to independently use their learning to....

- implement the use of strategies for adding and subtracting 3-digit numbers.

Skills

Students will be skilled at...

- Drawing to represent 3-digit addition.
- Breaking apart 3-digit addends.
- regrouping ones in 3-digit addition
- regrouping tens in 3-digit addition
- solving problems with three digit subtraction.
- regrouping tens in 3-digit subtraction
- regrouping hundreds in 3-digit subtraction
- regrouping hundreds and tens in subtraction
- Regrouping with zeros.