Addition and Subtraction Within 1,000 with Word Problems to 100

In this module, students build upon all their previous work with place value. They extend their work with addition and subtraction algorithms to numbers up to 1,000. Students continue to use drawings and models to strengthen and deepen their conceptual understanding. T.02 -

of word problems with numbers up to 100.

+ How You Can Help at Home:

Help your student practice counting both backward and forward by 10s and 100s.

Given any two- or three-digit number, help your student practice finding 10 more or 10 less, and/ or 100 more or 100 less than the number.

Key Common Core Standards:

Use place value understanding and properties of operations to add and subtract.

- o Add and subtract within 1000, using concrete models or drawings and strategies.
- o Mentally add 10 or 100 to a given number 100 900, and mentally subtract 10 or 100 from a given number 100 900.
- o Explain why addition and subtraction strategies work, using place value and the properties of operations.

780-390

Spotlight on Math Strategies:

The Arrow Way

Students will frequently use this strategy in this module of A Story of Units.

The arrow way is a strategy for both addition and subtraction that is heavily featured in this module.

At first glance, arrow notation, or the *arrow way* of doing mathematical operations, may seem complicated. However, it is a very helpful method, and it is actually very similar to what many of us have naturally learned to do mentally while adding and subtracting.

The arrow way involves chunking a number into more manageable mental pieces in order to add or subtract. Students use numbers that they have become confident working with, such as 100 and 10, in order to simplify the problem. They record their mathematical thinking as an expression with arrows in between the numbers to show the chunks of numbers that they are working with as they go.

This method is just one of several that students will be encouraged to use throughout this module. By employing various models and strategies, students deepen their facility with the mathematics they are learning and eventually build a tool kit of strategies to choose from as math becomes more complex throughout the elementary grades.

