MATH NEWS

Grade 2, Module 4, Topic C

2nd Grade Math

Module 4: Addition and Subtraction within 200 with Word Problems to 100

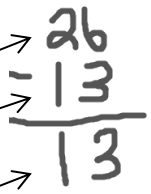
Math Parent Letter

This document is created to give parents and students a better understanding of the math concepts found in the material taught in the classroom. Module 4 of the material covers strategies for adding and subtracting within 200. This newsletter will discuss Module 4, Topic C.

Topic C. Strategies for Decomposing a Ten

Words to know:

- **Algorithm**
- **Minuend**
- **Subtrahend**
- **Decompose**
- **Difference**



Things to Remember!

When writing the vertical algorithm to subtract, take care to line up your numbers correctly.

Objectives of Topic C

1: Represent subtraction with and without the decomposition of 1 ten into 10 ones with manipulatives.

2: Relate manipulative representations to written method.

3: Represent subtraction with and without the decomposition when there is a three-digit minuend.

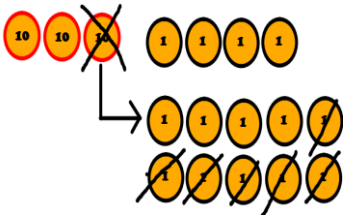
4: Use math drawings to represent subtraction with and without decompositions and relate drawings to a written method.

5: Solve one- and two-step word problems within 100 using strategies based on place value.

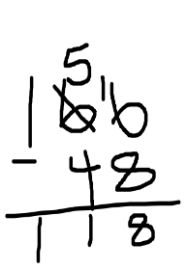
Focus Area of Topic C

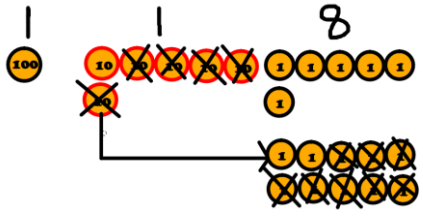
Apply understanding of place value strategies to subtraction algorithm

Students use number disks on a place value chart to subtract like units. They practice modeling the standard subtraction algorithm within 100 without decompositions, and then progress to problems that require exchanging 1 ten for 10 ones (decomposing/regrouping) The use of manipulatives allows students to physically experience the renaming and understand the *why* behind recomposing a quantity. Students will do this work with number disks, then transefer their understanding to a drawing.



Students move to the more abstract dot drawings on their place value charts and follow the same procedure for decomposing a ten and relating it to the written method. In this module, the students will subtract two-digit subtrahends from three-digit minuends.





The end of the module will have the students solving one- and two-step word problems. Students apply their place value reasoning, mental strategies, and understanding of compositions and decompositions to negotiate different problem types with unknowns in various positions.