Grade 1 – Unit 6

We are beginning Unit 6: Whole Number Concepts, Estimation and Computation using Addition and Subtraction within 100. The focus of this unit is the development of the open number line as a model for addition and subtraction of multi-digit numbers. This is done within the context of measurement providing students with additional opportunities to strengthen their understanding of measurement. Students will continue to develop their understanding of place value through addition and subtraction. They will use a variety of strategies that will be modeled on the open number line. These strategies will help students to think flexibly about numbers to compute efficiently.

Some examples of the work your child will be doing are:

* Students will notice patterns that occur when making and adding groups of ten.
* Example: 46, 56, 66, 76, 86, 96, 106…What do you notice?
* Example: If you know 26 + 10, how can that help you to figure out 26 + 12?
* Students will understand that groupings of ones, tens, and hundreds can be composed (put together) and decomposed (taken apart) in different ways.
* Example: 23 tens= 2 tens + 3 ones or 1 ten + 13 ones
* Example: 114 = 11 tens and 4 ones
* Students will understand that numbers can be decomposed (taken apart) and the smaller amounts can be added in varying orders, yet still be equivalent.
* Example: 18 + 79 may be solved by keeping 79 whole and breaking 18 into smaller pieces. (79 + 1 + 10 + 7) Students would move to the benchmark/landmark number of 80, add ten, then add 7. It would be recorded on an open number line like this:

 +1 + 10 + 7

 79 80 90 97

* Students will apply algebraic properties to add and subtract efficiently.
* Examples:
* Commutative Property: If 8 + 3 = 11 is known, then 3 + 8 = 11 is also known
* Associative Property: 2 + 5 + 8 can be restructured as (2 + 8) + 5 =

 10 + 5 = 15

Here is how you can help your child while our class is working on this unit:

* Practice basic addition and subtraction facts.
* Play games that reinforce addition and subtraction strategies.
* Skip count by 5s and 10s.
* Count things around the house.
* Include your child in activities that involve counting small sets of objects (within 100). e.g. number of socks in a drawer (both single and pairs)
* Reinforce strategies that help your child think flexibly about numbers. Encourage them to think about how to compose and decompose numbers.
* Encourage your child to explain their thinking as they solve problems. By explaining their thinking, your child will be reinforcing their understanding of concepts and skills.

If you have any questions, please contact your child’s teacher or the Math Science Teacher.

For additional information, take a look at the Fairfield Public School Parent Guide at <http://fairfieldpublicschoolsk5math.wikispaces.com/home>