Grade 2 – Unit 1

Welcome to 2nd Grade Math! We are beginning Unit 1: Graphing and Fact Strategies (+/-) Up to 20. In this unit students will be reviewing classroom routines which include representing their thinking using models, questioning their peers to deepen and clarify understanding, and justifying their reasoning. Students will explore multiple ways in which data can be represented and organized, analyze and interpret data, and investigate which type of graph best represents a specific type of data. They will also build on fact strategies learned in previous years such as doubles facts, doubles plus or minus one, the commutative property, and highlighting the relationship between addition and subtraction. A student’s ability to take numbers apart (decompose) and put them back together (compose) flexibly is the basis for developing good number sense and place value.

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

* Exploring multiple ways in which data can be represented
* Collecting data using a survey and organizing the data on an appropriate graph
* Making mathematical statements about a particular graph
* Answering questions using data on a graph
* Developing mathematical questions that can be answered by a particular graph
* Identifying patterns that help us make generalizations, using benchmark number 10 to compute with 9’s.
* Example: 9 + 8 = 10 +8 -1
* Exploring sums when joining odd + odd, even + even, even + odd
* Composing and decomposing numbers through 20 using algebraic properties
* Finding all the possible combinations for a particular sum
* Decomposing numbers into 3 or more parts (14 = 5 + 5 + 4)
* Investigating the inverse relationship between addition + subtraction (7 + 3 = 10 / 10 -3 = 7)
* Investigating related facts/fact families ( 13 + 5 = 18, 5 +13 = 18, 18 – 5 = 13, 18 – 13 = 5)

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

* Practice basic addition and subtraction facts
* Point out graphs in the real world
* 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 her/his thinking as she/he solves problems.

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