Fulton County Schools
Where Students Come First

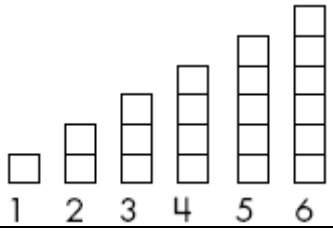
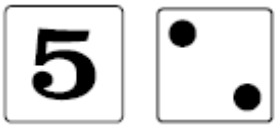
Mathematics Family Letter, Unit: 1

Addition and Subtraction to 10 and Number Sense

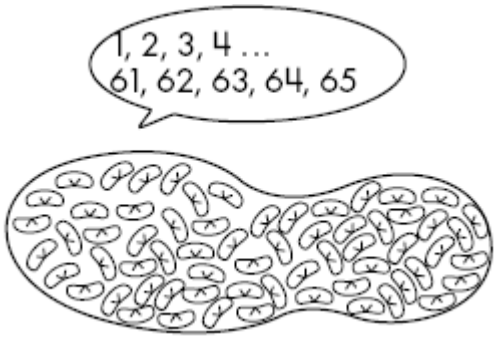
Dear Family,

Our class is starting the year with a mathematics unit called Addition and Subtraction to 10. We will be working on mathematical ideas such as counting, ordering and comparing quantities, adding and subtracting whole numbers, counting to higher numbers, counting sets of objects, and finding multiple combinations of a number up to 10.

Throughout this unit, students will be working toward the following goals:

BENCHMARK/GOALS	EXAMPLES
Find at least 5 combinations of 2 addends for a number up to 10.	9 - 5 = 4 9 - 2 = 7 9 - 8 = 1
Compare and order quantities to 100.	Use cubes to build towers for numbers, and put them in order from least to most. 
Combine two small quantities.	You rolled a number cube and a dot cube. How much did you roll? 
Find more than one combination of two addends for a numbers up to 10.	There are 7 vegetables on your plate. Some are peas. Some are carrots. How many of each could you have?

<table>
<tr><td>Interpret (retell the action and sequence) and solve addition and subtraction story problems.</td><td>There were 9 children playing in the park. Then 6 more came to play. How many children were at the park?</td></tr>
<tr><td>Subtract one small quantity from another.</td><td>Marta had 15 pennies. She spent 5. Then how many pennies did she have?
  </td></tr>
<tr><td>Represent numbers by using equivalent expressions.</td><td>Today's Number: 10

3 + 7 20-10 2 + 2 + 6</td></tr>
<tr><td>Count a set of 40–50 objects.</td><td>How many beans fit inside the tracing of your foot?
  </td></tr>
<tr><td>Rote count, read, and write numbers to 100.</td><td><table>
<tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr>
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In our math class, students engage in math problems and activities and discuss the underlying concepts. They are asked to share their reasoning and solutions. It is important that children solve math problems accurately in ways that make

sense to them. At home, encourage your child to explain his or her math thinking to you.

Related Activities to Try at Home

The activities suggested below are related to the mathematics we are currently working on in school. Doing them with your child can enrich his or her mathematical learning.

Counting Activities Your child can count collections of objects. Many first graders are able to accurately count amounts of about 40 or 50. With your help, your child can count even higher. Together, count sets of objects around the home, such as spoons, pennies, or collections of small toys. In school, children will trace their feet and count how many small items (beans, tiles, pennies) fit inside the outline. At home, your child may like to trace your foot and then count how many beans or pennies fit inside.

Start With/Get To Your child selects a number to "Start With" and another number to "Get To." Count with your child from the "Start With" number to the "Get To" number. During this unit, we will be focusing on numbers 1–60. This activity can also provide practice with counting backward. For example, start with 20 and get to 5.

Write the Numbers As an extension of "Start With/Get To," children write the numbers they are counting. Children may like to do this variation at home and/or write the numbers in order as high as they can count. At home, children can check a calendar to see how to write a given number.

How Many Am I Hiding? Put 5–12 small objects in your hand. Give your child a chance to determine how many you have. Then hide some in your other hand and show your child what is left. Now ask, "How Many Am I Hiding?" Encourage your child to explain his or her thinking. After playing a few rounds with the same number, you can change the total number and start again.

Games Your child will be bringing home some games to play with you during this unit. As you play, ask your child to explain how he or she is thinking about a problem.

Math and Literature

Here are some great books you can find in your local library and read with your child. Have your child read these and see what mathematical concepts your child discovers.

Anno, Mitsumasa Anno's Counting Book
Bang, Molly Ten, Nine, Eight (English/Spanish)
Carle, Eric Rooster's Off to See the World
Crews, Donald Ten Black Dots (English/Spanish)
Emberley, Rebecca My Numbers (Mis Numeros) (English/Spanish)
Falwell, Cathryn Feast for 10
Grossman, Virginia and Sylvia Long Ten Little Rabbits
Micklethwait, Lucy I Spy Two Eyes: Numbers in Art
Onyefulu, Ifeoma Emeka's Gift: An African Counting Book
Peek, Merle Roll Over!: A Counting Song
Pluckrose, Henry Arthur Numbers
Dale, Penny Ten in Bed
Ehlert, Lois Fish Eyes
Kushkin, Karla The Philharmonic Gets Dressed
Merriam, Eve 12 Ways to Get to 11
Mora, Pat Uno, Dos, Tres, One, Two, Three (English/Spanish)
Sloat, Teri From One to One Hundred
Sturges, Philemon Ten Flashing Fireflies
Tang, Greg Math for All Seasons
Tang, Greg Math-Terpieces
Wells, Rosemary Emily's First 100 Days of School
Zaslavsky, Claudia Count on Your Fingers African Style

Sincerely,
The First Grade Team