

**First Grade
Trailblazers Unit 5
“Grouping and Counting”**

State Goals and Objectives Met in Unit 5:

1.01, 1.02, 1.03, 1.04, 2.01, 4.01

What North Carolina expects your child to learn:

<http://www.ncpublicschools.org/curriculum/mathematics/scos/2003/k-8/14grade1>

How Math Trailblazers meets the state’s goals (Click to pg 8):

<http://www.kendallhunt.com/uploads/2/CORR-NC-MTB2.pdf>

What your child will do in this unit:

1. Students are introduced to the value of skip counting (2s, 5s, and 10s) through literature.
2. Students place pennies in *10 Frames*, grouping the pennies by 5s and 10s and exchanging the pennies for nickels and dimes.
3. Students use literature to explore groups. They use manipulatives to act out grouping and sharing cookies. The formative understanding of division begins in this lesson. *Fair share* means division. Students record their solutions using number sentences.
4. Students read a story while learning the importance of labeling data tables.
5. Students sample cereal to determine the colors in a population. The students begin to use the TIMS Laboratory Method. The students use this experimental model. The model consists of drawing the experiment, collecting data (table), graphing data (bar graph), and exploring the data (interpretation).

First grade glossary link: http://www.kendallhunt.com/uploads/2/MTB_Gr1_Glossary.pdf

Manipulatives and Supplies

What your child will use:

Lesson 1	Lesson 2	Lesson 3	Lesson 4	Lesson 5
egg cartons, calculators	pennies, nickels, dimes, crayons, markers, tape	Connecting cubes or counters	n/a	Froot Loops®, ¼ measuring cup, large bowl, calculators, crayons or markers, scissors, tape

Unit Assessment Indicators

What your child is expected to learn:

- Can students group and count objects by twos, fives, and tens?
- Can students divide a collection of objects into groups of a given size and count the leftovers?
- Can students collect and organize data in a table?
- Can students identify the relationships among pennies, nickels, and dimes?

Student Friendly Books/Unit Literature:

- *Two Ways to Count to Ten* by Ruby Dee
- *The Doorbell Rang* by Pat Hutchins

Websites to Explore

- Practice skip counting - <http://www.rainforestmaths.com/> Click on Level B and choose “Count by” on the first row.
- More Addition Practice: <http://www.dositey.com/addsub/addition.htm>
- Addition Surprise – <http://www.harcourtschool.com/activity/add/add.html>

How you can help your child:

- ✓ Allow your child to play with a calculator. When solving addition problems, have your child explain why he or she used certain keys and why the order was important.
- ✓ Encourage your child to count and tally objects at home. Can the items be grouped into 5s and 10s?

Helpful Computer Programs:

Unit 5—Grouping and Counting

Grouping and Place Value practices grouping objects by twos, fives, and tens.

Kid Pix helps students draw, write, and illustrate math concepts.

Math Concepts One . . . Two . . . Three! provides practice with number sense, addition and subtraction with manipulatives and money, sorting objects, and making simple bar graphs.

Mighty Math Carnival Countdown provides practice with place value, counting, and basic operations.

Mighty Math Zoo Zillions provides practice with basic operations (adding and subtracting) with money, rounding, skip counting, and identifying even and odd numbers.

Money Challenge provides practice with money