

Dear Parents,

We will begin our next unit of study in math soon. The information below will serve as an overview of the unit as you work to support your child at home. If you have any questions, please feel free to contact me. I appreciate your ongoing support.

Sincerely,  
Your Child's Teacher

## **Unit Name: Data and Two Step Problem Solving**

### **North Carolina Content State Standards:**

**NC.2.MD.10** Organize, represent, and interpret data with up to four categories.

- Draw a picture graph and a bar graph with a single-unit scale to represent a data set.
- Solve simple put-together, take-apart, and compare problems using information presented in a picture and a bar graph.

**NC.2.OA.1** Represent and solve addition and subtraction word problems, within 100, with unknowns in all positions, by using representations and equations with a symbol for the unknown number to represent the problem, when solving:

- One-Step problems:
  - Add to/Take from - Start Unknown
  - Compare - Bigger Unknown
  - Compare - Smaller Unknown
- Two-Step problems involving single digits:
  - Add to/Take from - Change Unknown
  - Add to/Take From - Result Unknown

### **Math Language:**

- |              |              |              |                 |
|--------------|--------------|--------------|-----------------|
| • Categories | • Data       | • Table      | • Picture Graph |
| • Bar Graph  | • Vertical   | • Horizontal | • Sorting       |
| • More       | • Most       | • Fewer      | • Less          |
| • Column     | • Row        | • Title      | • Labels        |
| • Compare    | • Comparison | • Analyze    | • Unknown       |
| • Survey     | • Difference | • Total      |                 |

### **Unit Overview:**

This Unit, which focuses on data, serves as a platform to solve one and two-step word problems. Students work with the process of data collection as they pose relevant questions, collect data to answer their questions, organize data, and interpret the results. This includes both measurement and categorical data. Measurement data should be based on standard units of linear measure. They will build a conceptual understanding of picture and bar graphs along with organizing and interpreting data. This unit focuses on application of the standards through the context of real-world data and word problems.

### **Skills/Strategies:**

- Collect and represent data, with up to four categories
- Interpret results of picture and bar graphs with up to four categories
- Solve put-together, take-from and comparison problems using data
- Solve one-step problems relating to data within 100
- Solve two-step problems relating to data involving only single-digits

**Video Support:**

- No videos are referenced for this unit.

**Additional Resources:**

- [NCDPI Additional Resources](#)

**Questions to Ask When Helping Your Child with Math Homework**

Keep in mind that homework in elementary schools is designed as practice. If your child is having problems, please let the classroom teacher know. When helping your child with his/her math homework, you don't have to know all the answers! Instead, we encourage you to ask probing questions so your child can work through the challenges independently. Some examples may include the following:

What is the problem you're working on?

What do the directions say?

What do you already know that can help you solve the problem?

What have you done so far and where are you stuck?

Where can we find help in your notes?

Are there manipulatives, pictures, or models that would help?

Can you explain what you did in class today?

Did your teacher work examples that you could use?

Can you go onto another problem & come back to this one later?

Can you mark this problem so you can ask the teacher for an explanation tomorrow?