

Kindergarten Important Math Information

Data



Dear Family,

Our class is starting a unit of study in mathematics called *Data*. This unit of study will have students learning how to count and keep track of quantities, how to represent a set of data, and seeing the one-to-one correspondence between a set of data and the representation of the data set. The collection of data will also provide the opportunities for students to count to larger numbers and practice counting by tens. Students will work with identifying attributes of an object and using those attributes to sort objects. They will be able to compare how the objects are the same and different. Students will participate in a survey with two possible responses and then collect and keep track of the survey data. Students will then be able to draw conclusions from the data they have collected. The specific learning goals your student will be working toward are listed below with examples of student work showing understanding of each learning goal.

| Learning Goal: Sort objects into categories and be able to count the number of objects in each category. | |
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| Example Problems | Example Student Solutions |
| Sort the balloons by color and write the number of the balloons in each group. |   |
| Compare the number of blue balloons to the number of red balloons. | "There are more blue balloons than red balloons." |
| Learning Goal: Count to 100 by ones starting at any number and be able to count to 100 by tens. | |
| Example Problem | Example Student Solution |
| Start at 73 and count up to 100. | "73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100" |
| Count to 100 by tens | "10, 20, 30, 40, 50, 60, 70, 80, 100" |



Things you can do at home to support your student throughout this unit of study:

- **Sorting**

Your child can sort collections of objects you have at home: coins, stamps, toys, containers, even laundry. He or she can sort just for fun or to organize some things in your home. As your child sorts the collection, ask him or her questions about the sorting: “How are some of the buttons the same?” “How could you sort them into groups?” “What is the same about all of these?” “Is there a different way you could sort them?”

- **Surveys**

In this unit, students conduct their own surveys. Help your child take a survey of your family, friends, or neighbors. Your child can choose a question that is of interest to him or her, create a sheet to record people’s responses, ask people the question, and then record their responses. Afterwards ask your child some questions about the results of the survey. For example, ask: “What did you find out? How many people said they liked the ocean? How many people didn’t? Did more people like the ocean than did not? Were you surprised by people’s responses?”

- **Counting to Collect Data**

You can encourage your child to collect data about the number of certain items in your home: How many forks do you have? How many windows? How many chairs? How many feet are there in your home?

- **Math and Literature**

You can find the following books in your local library and read them together.

- Grandma’s Button Box (Math Matters) by Linda Williams Aber
- This is the Way We Eat Our Lunch by Edith Bear
- More or Less a Mess by Shelia Keenan
- The Best Vacation Ever by Stuart Murphy
- Sorting (Math Counts) by Henry Arthur Pluckrose

- **Student Math Handbook**

Remember to refer to the Student Math Handbook available electronically in Angel. The Student Math Handbook will provide additional information on instructional strategies to assist with homework or directions on how to play games the students have been working on in class.

