Bridges in Mathematics Grade 2 Unit 8

Measurement, Data & Multidigit Computation with Marble Rolls

In this unit, your student will:

- Measure lengths to the nearest inch
- Collect and display data on line plots and bar graphs



- Analyze data to solve problems and draw conclusions
- Add and subtract 3-digit numbers

Your student will practice these skills by solving problems such as these:



Bridges Third Edition Grade 2 Unit 8

Frequently Asked Questions About Unit 8

Q: Why are students doing math and science at the same time in this unit?

A: Math and science are closely related. Scientists use mathematics to make sense of data they collect through

experiments. In this unit, students use mathematics to analyze and interpret data they collect about the marble tracks they build. By integrating math and science in a purposeful way, Unit 8 helps students see that mathematics is not a collection of disconnected skills and topics but rather a way of using tools to make sense of

the world around them.

Q: It seems like students are doing a lot of measuring length and distance. Why? What about different types of measurement?

A: The marble roll project is the culmination of a year filled with linear measurement. Like scientists everywhere, students run multiple trials, measuring and recording the distance the marble rolls from each ramp height three times. In the process, one of the things students practice is measuring to the nearest whole inch, which prepares them for rounding and working with fractions on a number line in third grade. The work they have done with number lines, linear measurement, and fractions also prepares them to understand fractions on a

number line or ruler. Students will work with other types of measurement, like temperature, mass (weight), and volume (capacity), in future grades.

Q: What can I do over summer break to help my student continue to grow mathematically?

A: Encourage your student to perform their own experiments, especially ones that include measuring lengths. For example, have them build towers using different kinds of blocks. Which kind of blocks result in the tallest tower? How can they display the results clearly to others?

Summer is the perfect time to show your student how math is used in everyday life. Telling time, counting money, measurement, addition, and subtraction are all key skills they developed this year. Activities that reinforce these life skills are good choices. Ideas include playing games, following recipes, or shopping.

To further support your student in learning mathematics, you can:

- Visit <u>mathathome.mathlearningcenter.org</u> and work through some or all of the activities in Grade 2: Spring Medley and Summer Medley together. These activities extend the learning from all the units and provide fun ways to engage children in mathematical thinking.
- Visit <u>apps.mathlearningcenter.org</u> and invite your student to explore the Number Line and Number Pieces apps. Throughout Unit 8, students explore these tools in their physical forms in the classroom.
- Read books with your student that focus on measuring with inches and feet or multidigit addition and subtraction. It's also a good time to review the math they learned throughout the year and to explore the specific math interests of your student. Some suggestions include:
 - » Carrie Measures Up by Linda W. Aber, illustrated by Joy Allen
 - » How Long or How Wide?: A Measuring Guide by Brian P. Cleary, illustrated by Brian Gable
 - » Go Next Door!: Teaching Kids to Regroup with Addition by Nadine Ebri
 - » The Good Neighbors' Cheese Feast: A Cheesy Mouse Tale of Subtraction with Regrouping written by Mark Ramsay, illustrated by Susan G. Robinson
 - » Do Not Open This Math Book: Addition + Subtraction by Danica McKellar

2