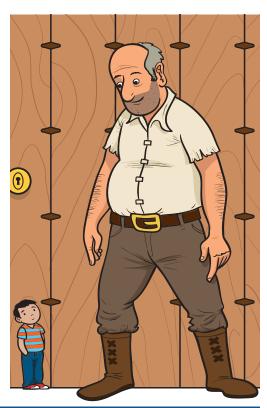
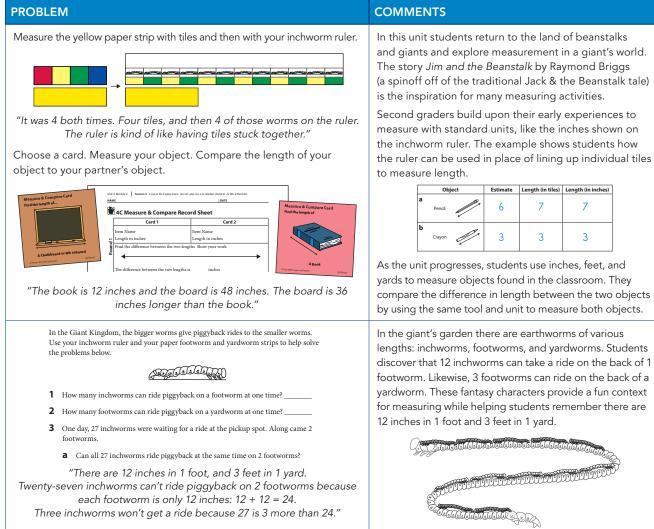
# Bridges in Mathematics, Grade 2 **Unit 4: Measurement**

In this unit, your child will:

- Estimate, measure, and compare the lengths of objects in inches, feet, and yards
- Select and use the appropriate tool for measuring the length of an object
- Measure the length of an object twice, using two different units—such as inches the first time, then feet

Your child will solve problems like those shown below. Keep this sheet for reference when you're helping with homework.





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### Grade 2, Unit 4: Measurement

### PROBLEM COMMENTS How wide is the desk? Use your inchworm ruler to find out. Then use Students measure an object using two units of different your footworm ruler. lengths such as inches, then feet. "The desk measurement in inches is 24 inches wide, but when you measure it in feet, it's only 2 feet wide." How long do you think our whiteboard is ? 100 inchworms 13 footworms 75 inchworms 10 footworms 150 inchworms 8 footworms 20 footworms Students compare standard units of measurement and explore how the size of the unit impacts the number of Are the measurements the same? Why or why not? units necessary to measure the object. In this example, "They end up meaning the same distance, but the inches number isn't the students' estimates show an understanding that the same as the feet number because inches are a lot smaller than feet." inches are much smaller than feet.

## FREQUENTLY ASKED QUESTIONS ABOUT UNIT 4

## Q: Why is estimating an important part of learning to measure?

**A:** Estimating, prior to measuring, helps a student focus on the attribute being measured and the measuring process. For example, when students make an estimate, they need to think about the unit's length. If a student is going to estimate the length of something in inches, he needs to think about how long 1 inch is. This helps him become more familiar with a unit's size. Once he makes an estimate and the item is actually measured, he can think about the accuracy of the estimation. This reflection will help with future estimates, number sense, and measurement tasks.

# **Q:** The examples from this unit were all customary units (inches, feet, and yards). Will students learn the metric system as well?

A: Length in metric units (centimeters and meters) is taught in Unit 7.

## Q: This unit is on measuring, but many of the Home Connections assignments are not. Why is this?

**A:** While the lessons in this unit focus on learning to measure length using inches, feet, and yards, it is important that students continue to practice solving problems using their developing computational skills. The Number Corner activities at school and the homework assignments provide this necessary practice.

You can explore measurement with your child. Talk about different things that can be measured at home, and then get measuring!

- There are many ways to measure features other than length or width—such as a child's weight or cups needed to fill a gallon. Discuss why a ruler or tape measure would not be used for these measurements.
- Make a list of things that could be measured in inches, feet, or yards. Choose a few items to measure, and discuss which unit is most appropriate. Would you measure the length of a bedroom in inches or feet? Why?
- Gather several items to measure, such as a book, a cereal box, a sock, or an envelope. Ask your child to estimate the length of each. Measure the objects and compare the difference between the estimate and the actual measurement.
- Whether you're calculating distance on a roadmap, planning to buy a new tablecloth or curtains, or measuring garden rows, real-life applications make math meaningful.