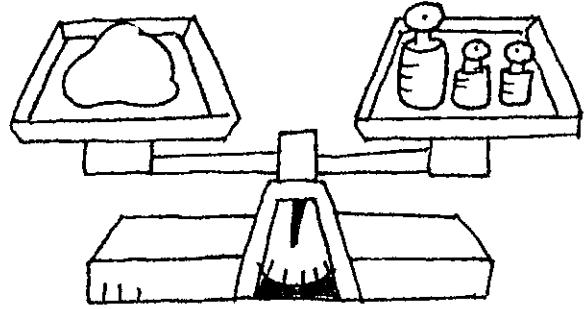


# Measurement

Students will enjoy these exploratory center activities as they estimate, measure, and compare, using a variety of both nonstandard and standard units of measurement. These activities offer students experiences in measuring capacity, length, and weight.



## Materials

- Different Shapes—Different Levels reproducibles (pages 73–74)
- several cups of rice in a flat container
- 5 containers of different shapes and sizes, labeled A, B, C, D, E
- measuring cups
- erasable marking pens or grease pencils
- funnels
- cloth for wiping off pen or pencil marks

## Different Shapes—Different Levels

### Teaching Tips and Extensions

- Show students how to measure exactly one cup of rice by filling it and smoothing the top.
- Show how to use the funnel for narrow-mouthed containers.

## Which Is More?

### Teaching Tips and Extensions

- Show students how to use the funnel for narrow-mouthed containers.
- Encourage students to explain their predictions of which containers will hold more.

## Materials

- Which Is More? reproducibles (pages 75–76)
- 5 containers of different shapes and sizes, labeled A, B, C, D, E
- several cups of rice in a flat container
- measuring cups
- funnels

## Materials

- How Many Cubes? reproducibles (pages 77–78)
- pencils, books, student desk and chair for measuring
- linking cubes

## How Many Cubes?

### Teaching Tips and Extensions

- Make sure students understand that the difference between their estimate and the actual measurement goes in the *Difference* column on their How Many Cubes? activity sheet.

## Weighing a Pound

### Materials

- Weighing a Pound reproducible (page 79)
- containers of beans, popcorn, rice, and other food items to weigh
- small scoops
- sturdy resealable plastic bags
- balance scales
- 1-lb. ( $\frac{1}{2}$ -kg) weights

## Lightest to Heaviest

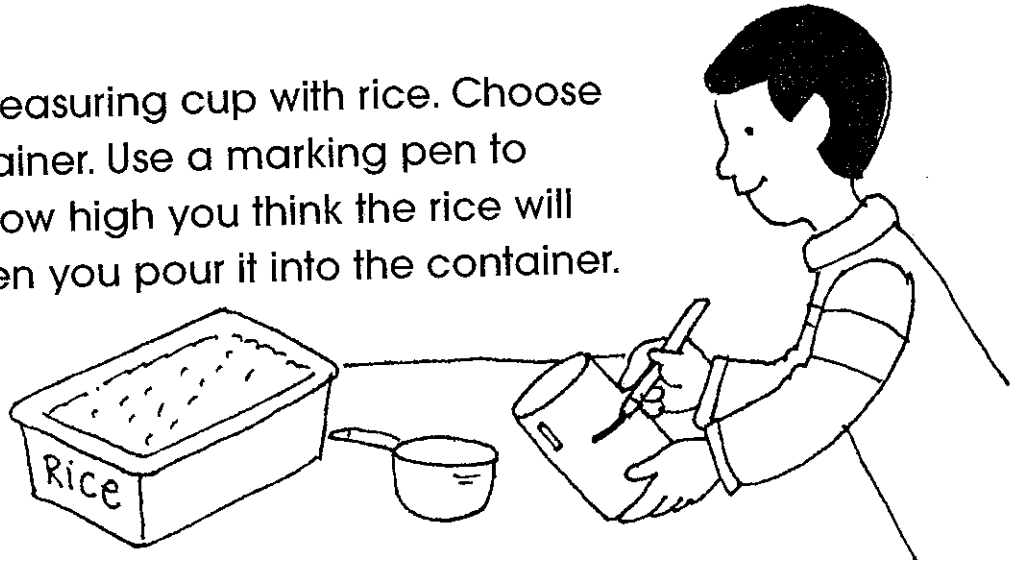
### Materials

- Lightest to Heaviest reproducibles (pages 80–81)
- book, box of crayons, shoe, clay, stapler, and other objects to weigh, ranging from 1 ounce (28 g) to 2 pounds (1 kg)
- balance scales
- various weights, ranging from 1 ounce (28 g) to 2 pounds (1 kg)

# Different Shapes—Different Levels

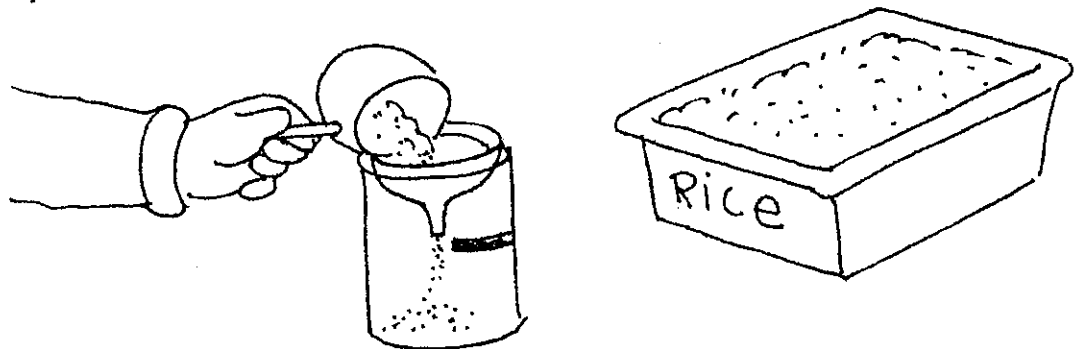
1

Fill a measuring cup with rice. Choose a container. Use a marking pen to show how high you think the rice will be when you pour it into the container.



2

Use a funnel to pour the cup of rice into the container. Compare the actual height of the rice to your guess.



3

Wipe the marker line off the container and repeat the activity with the other containers.



**Math  
Journal**

On your journal page, describe how the shape and size of the container affect the level of the rice.

