

Give each student a **9x12 sheet each of yellow, white, orange and blue construction paper**. Review page 18 in *Measuring Penny* by Loreen Leedy as a starter for discussing volume. Show the **Mr. Gallon sheet** or your model and explain that they will explore the measuring tools (cups, pints, quarts and gallon) used in the U.S. customary system for liquid measure.

- ? Have you ever heard these measurement words before and in what context? *Examples: a gallon of gas, a cup of water, a quart of milk, a pint of ice cream.*

#### Making Mr. Gallon:

Take the yellow paper and fold it in half, then in half again three more times. When the paper is opened, there will be 16 squares. Have the students write the word CUP on each square and then cut out.

Repeat the procedure with pints and quarts, folding three times for pints and two times for quarts. Write the appropriate label and cut out the rectangles.

**Tape** Mr. Gallon together as shown below, and then draw the face with **crayons**.

Review conversions and have students write the conversions below the mouth of Mr. Gallon:

$$2 \text{ cups} = 1 \text{ pint}$$

$$4 \text{ quarts} = 1 \text{ gallon}$$

$$2 \text{ pints} = 1 \text{ quart}$$

$$2 \text{ quarts} = 1/2 \text{ gallon}$$

- ? Why should we memorize these conversions? *Example: You want to make lemonade and the directions are for a 2 quart container but you only have a gallon container.*
- ? How can you be precise with the recipe directions when you do not have the right measuring containers? *You'll need to convert cups to quarts or pints to quarts in some cases.*

#### MATERIALS:

- Measuring Penny by Loreen Leedy
- 9x12 white, yellow, orange and blue construction paper
- Mr. Gallon sheet
- Scissors
- Masking tape
- Crayons

# Mr. Gallon

